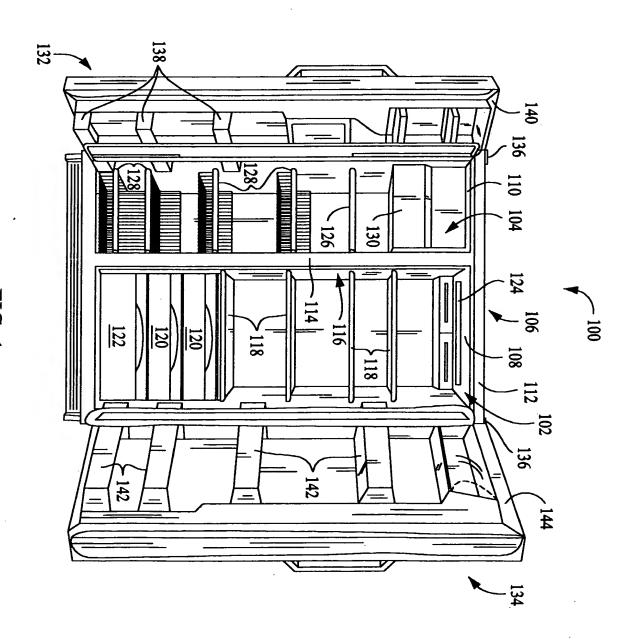


Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -**ELECTRONICS ARCHITECTURE;** Thomas M. Fisher; ARMSTRONG TEASDALE LLP

One Metropolitan Square, Suite 2600, St. Louis MO 63102
(314) 621-5070

Express Mail No.: **EV263879983US** 





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

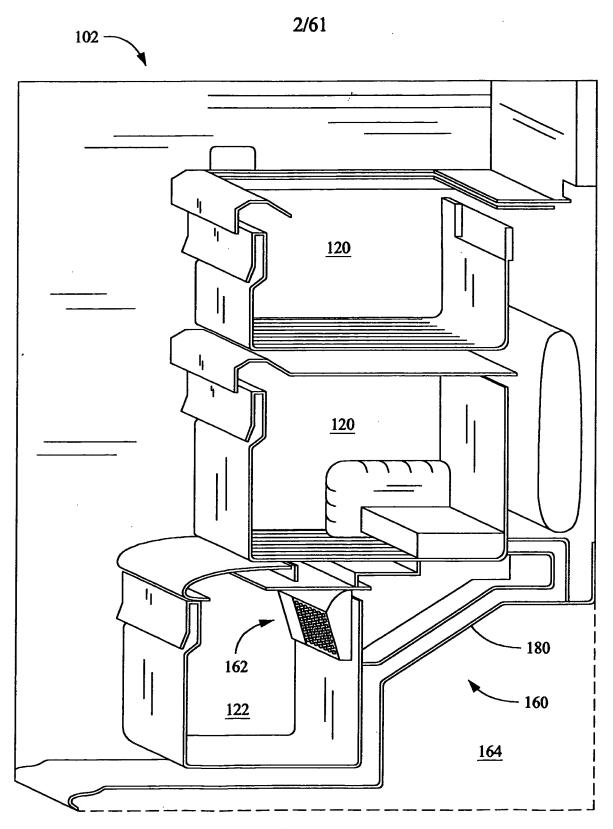


FIG. 2



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

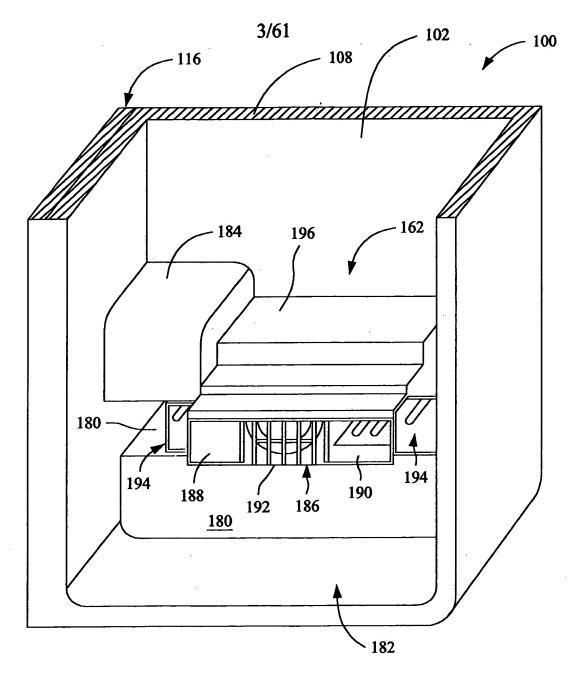
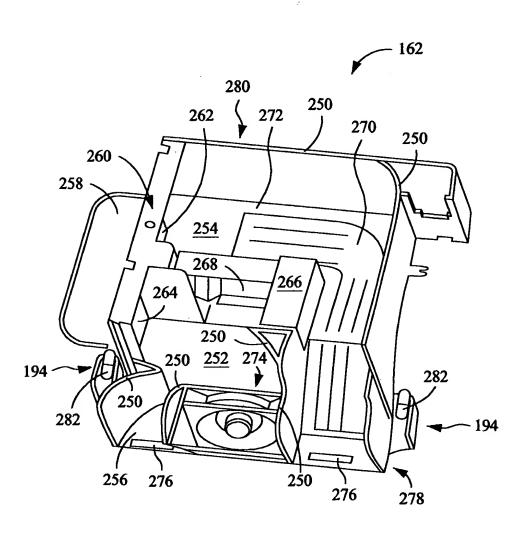


FIG. 3



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

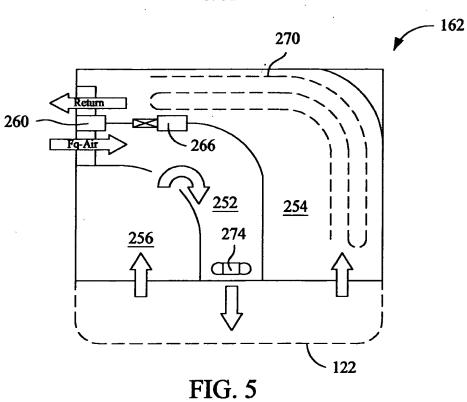
Express Mail No.: EV263879983US

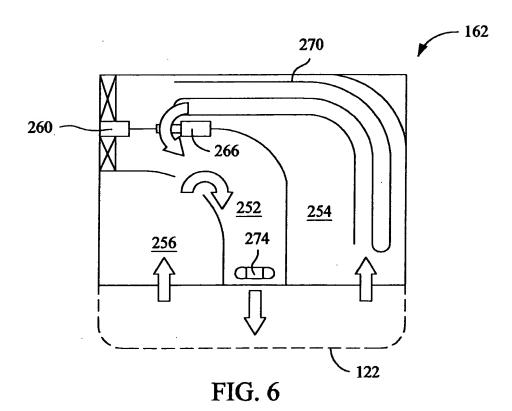




Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070









Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

6/61

300

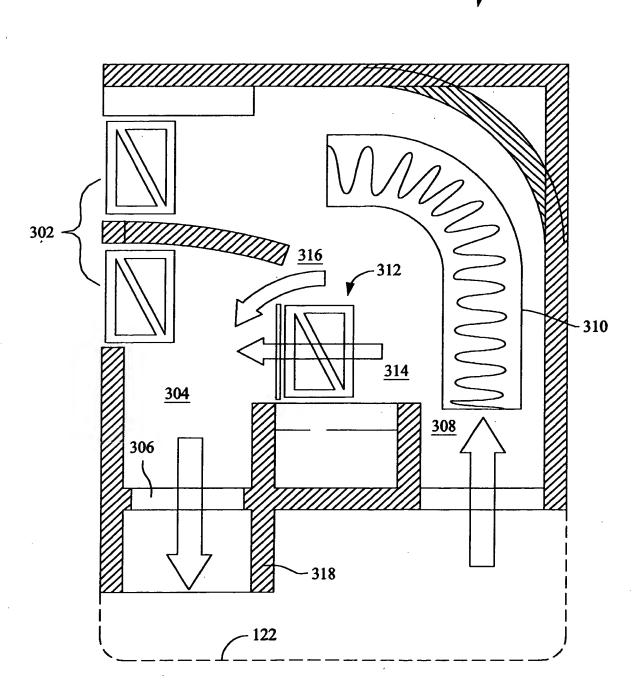


FIG. 7



Thomas M. Fisher, ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

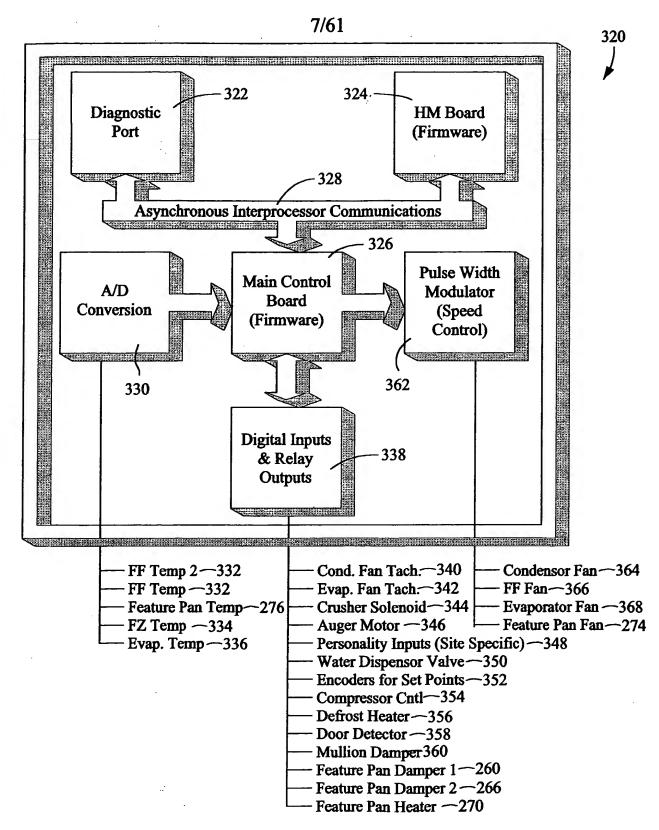


FIG. 8



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102

(314) 621-5070

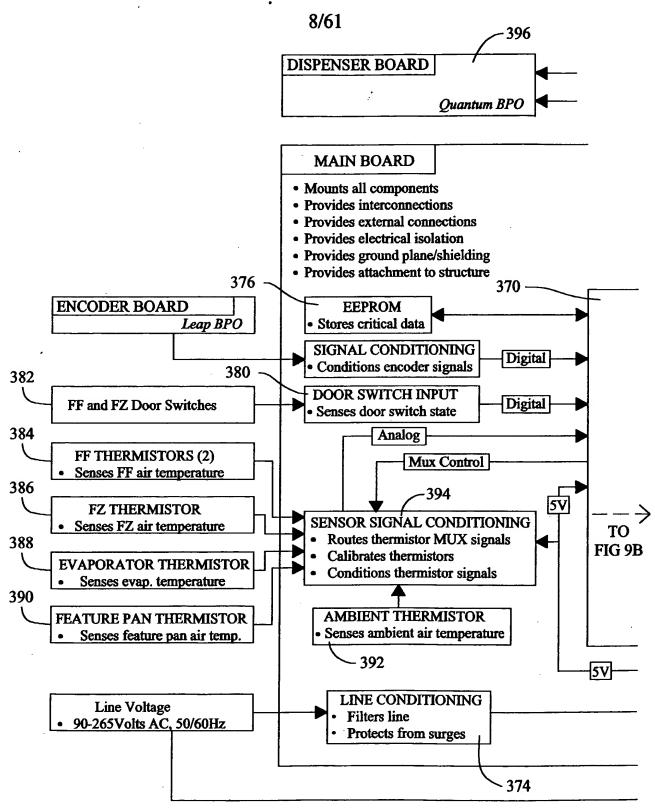


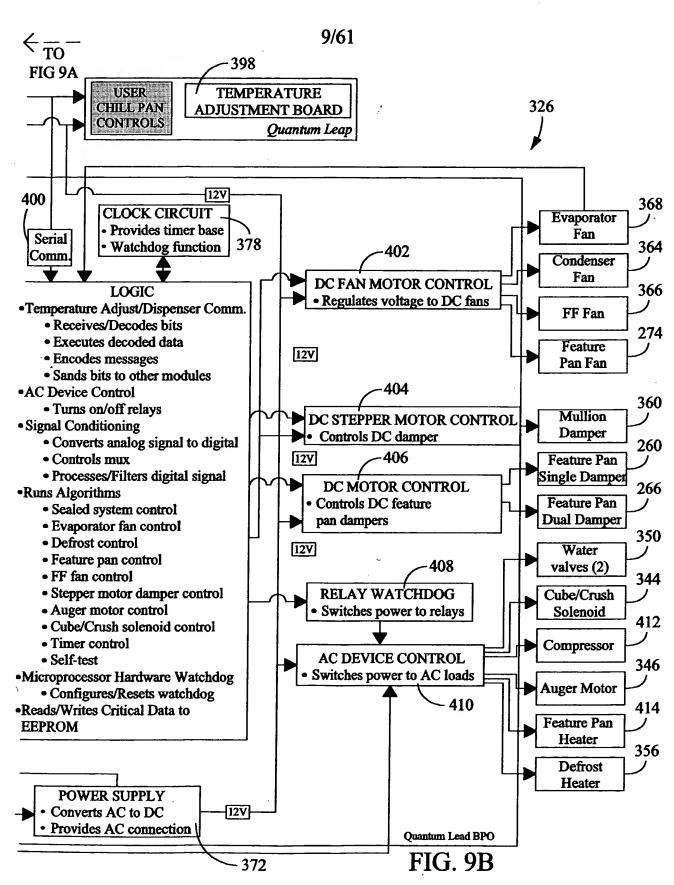
FIG. 9A

JAN 1 6 2003 8

Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -

**ELECTRONICS ARCHITECTURE;** 

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

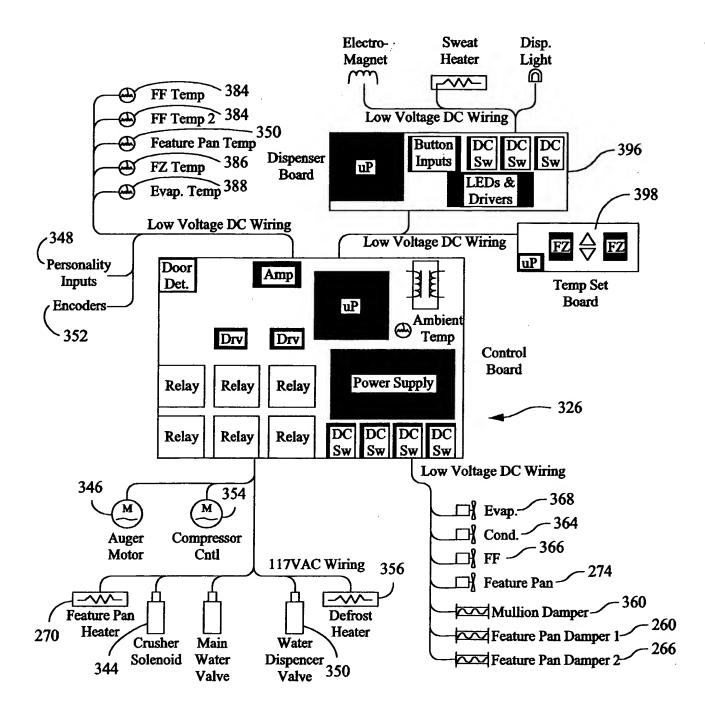
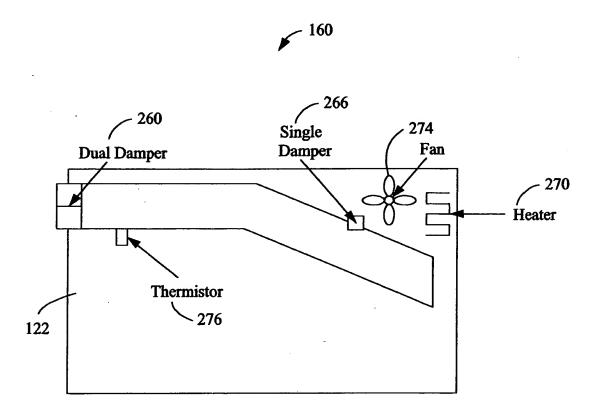


FIG. 10



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

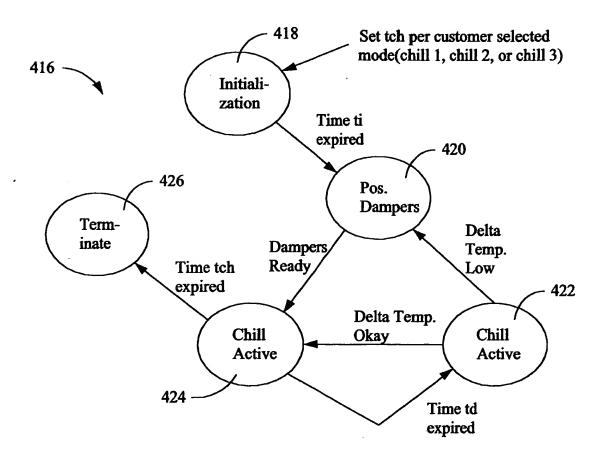
Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

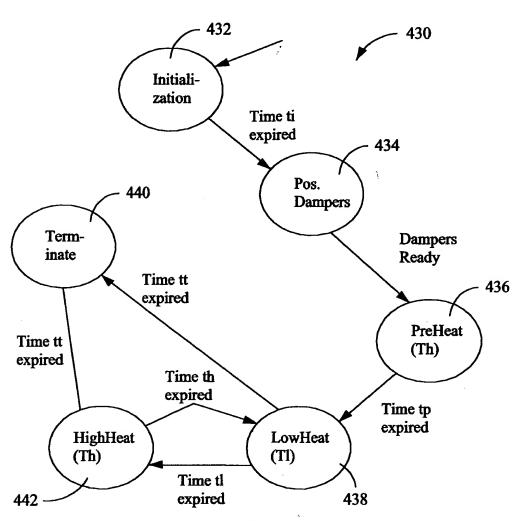




Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

#### 13/61



Initialization: Shuts off heater and turns on fan. This mode is implemented so that the customer interface LED that is wired in parallel with the fan will turn on as soon as the button is hit. Time ti is the initialization time and will typically be approximately one minute.

Pos. Dampers: This state shuts off the fan, sets the single damper open then closes the dual damper. It then turns the fan back on. This is done for power management

PreHeat: This state regulates the pan temperature

LowHeat

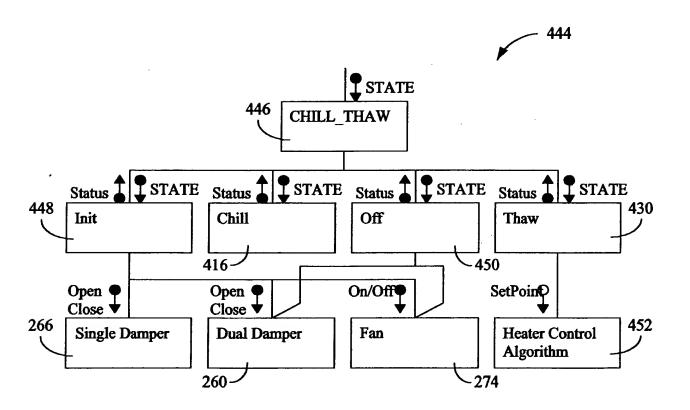
HighHeat:

Terminate: This mode closes both dampers and shuts off the fan then returns to idle.



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

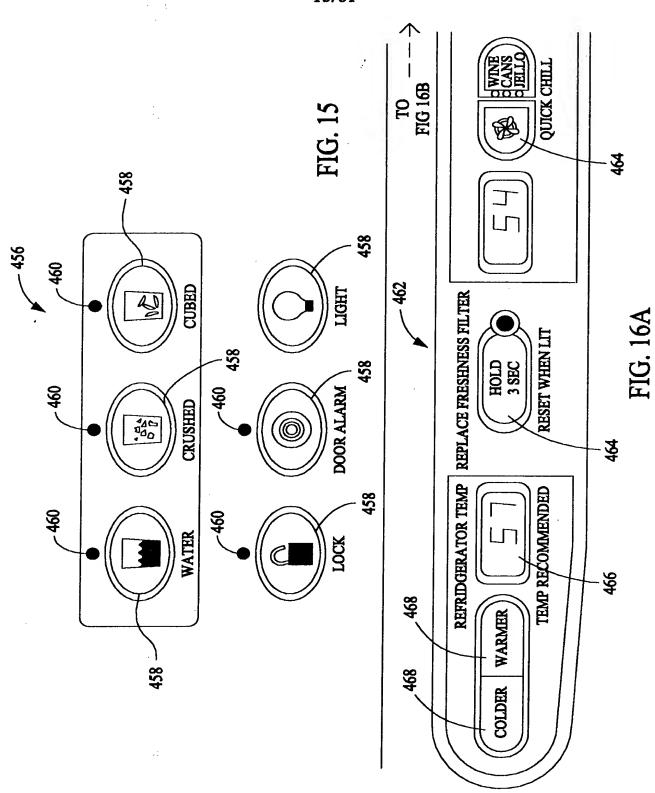
Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP
One Metropolitan Square, Suite 2600, St. Louis MO 63102
(314) 621-5070

Express Mail No.: EV263879983US



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

# 16/61

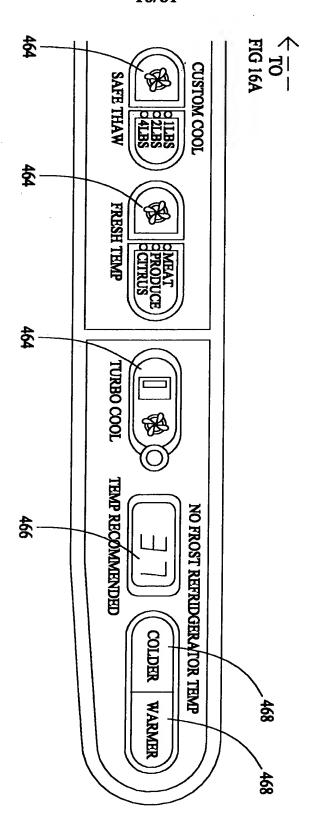


FIG. 16B



Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -ELECTRONICS ARCHITECTURE; Thomas M. Fisher; ARMSTRONG TEASDALE LLP

Thomas M. Fisher; ARMSTRONG TEASDALE LLP
One Metropolitan Square, Suite 2600, St. Louis MO 63102
(314) 621-5070

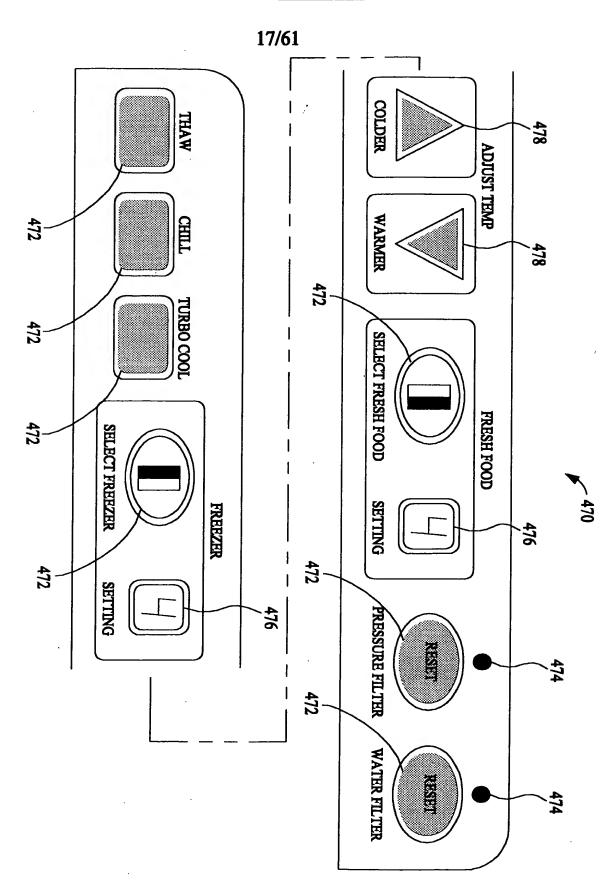
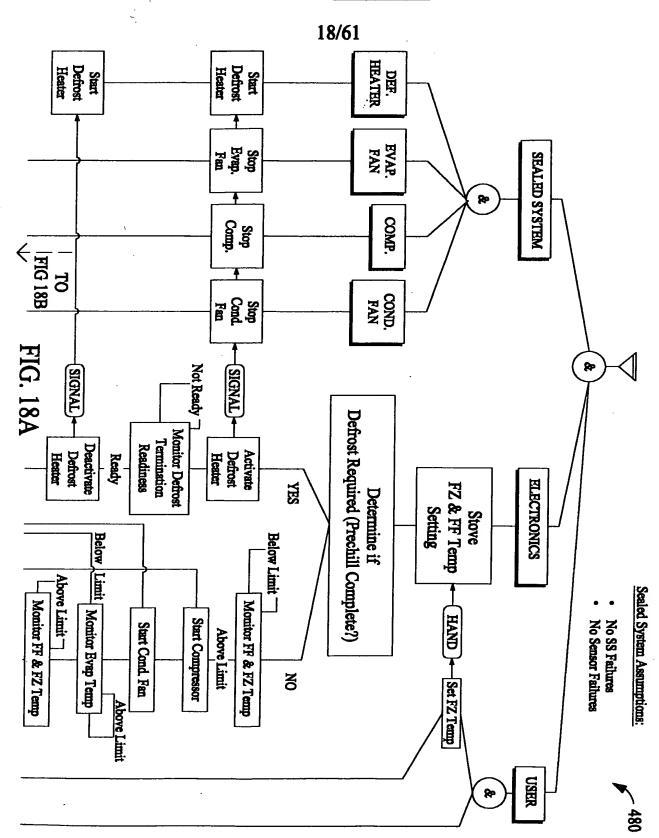


FIG. 17



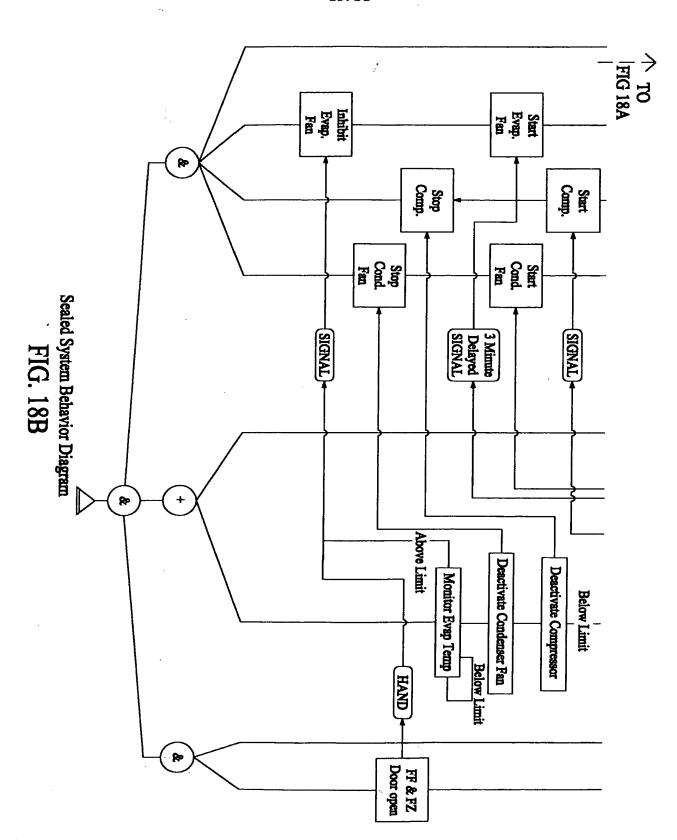
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

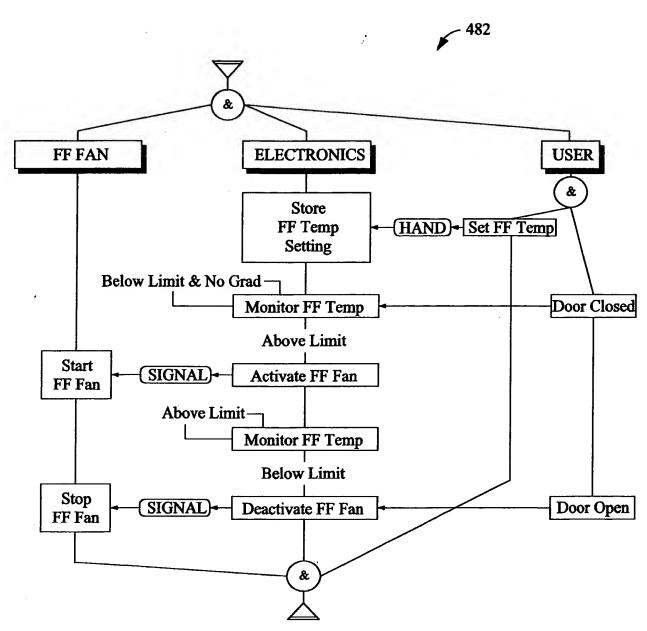
Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

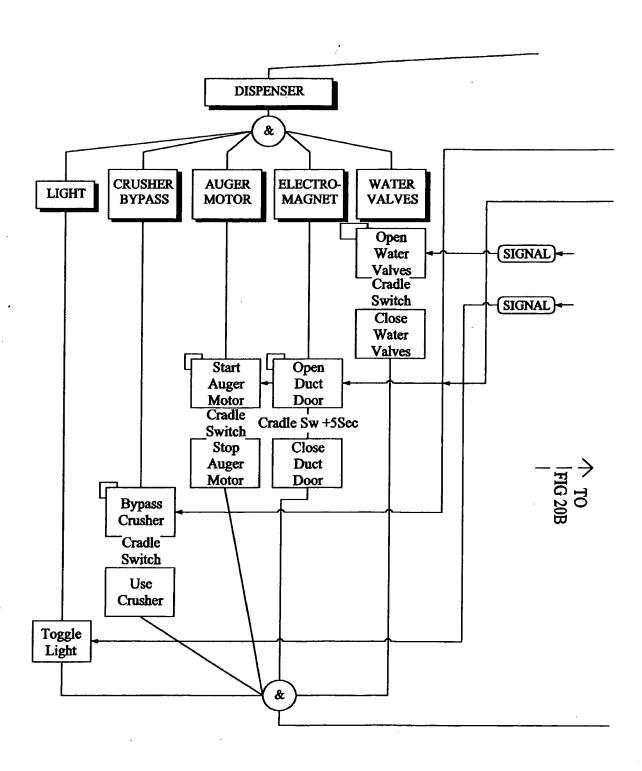


Fresh Food Fan Behavior Diagram



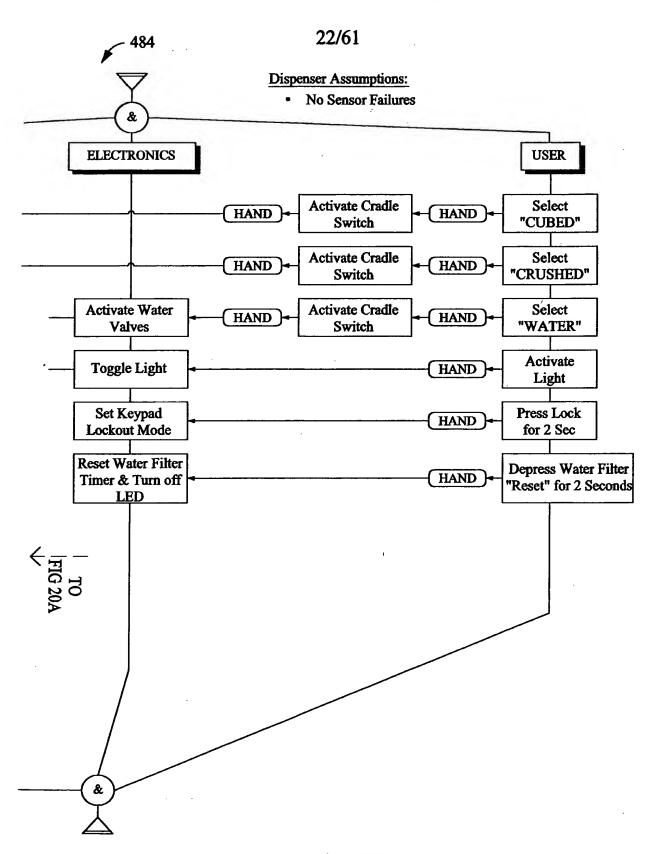
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



**FIG. 20B** 



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

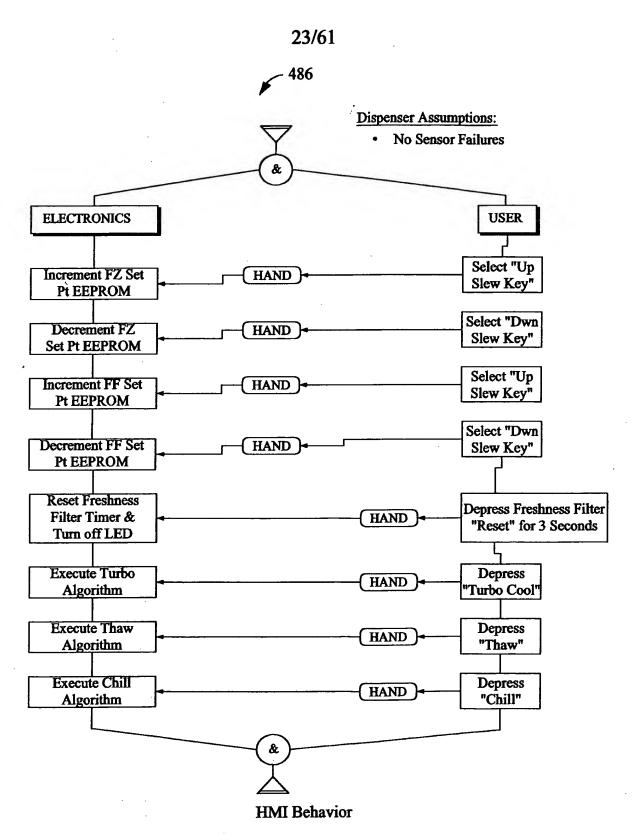
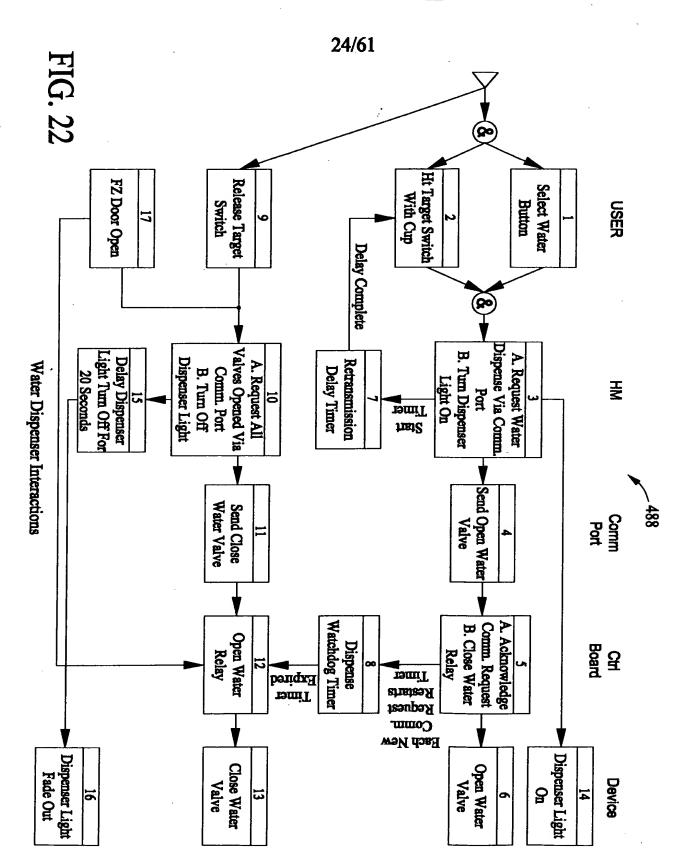


FIG. 21

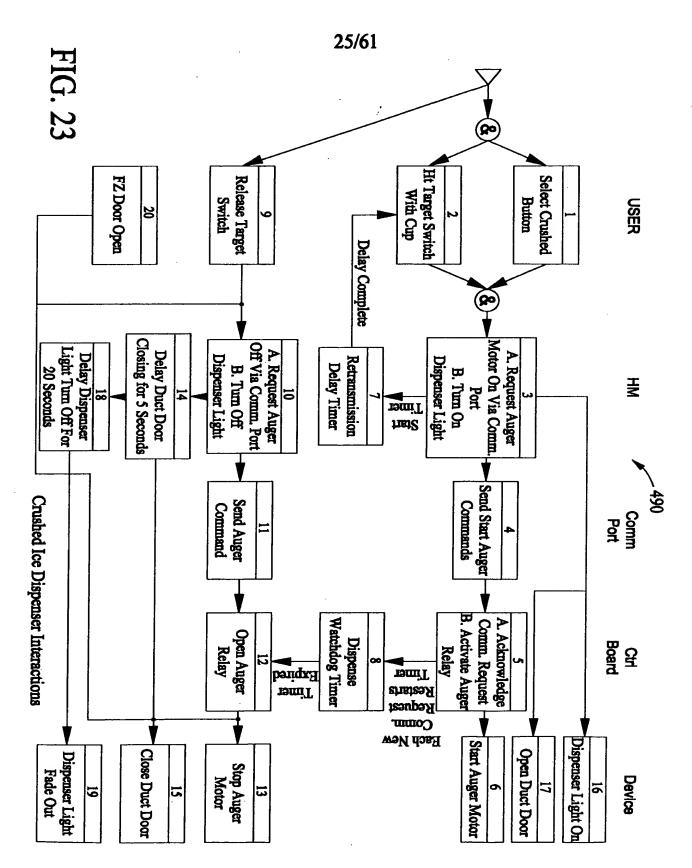


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



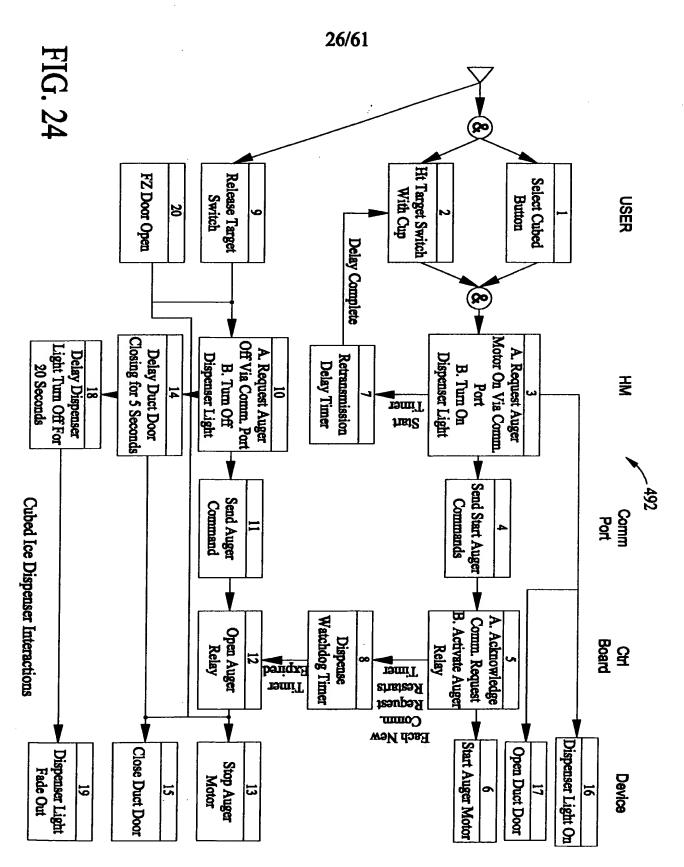


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

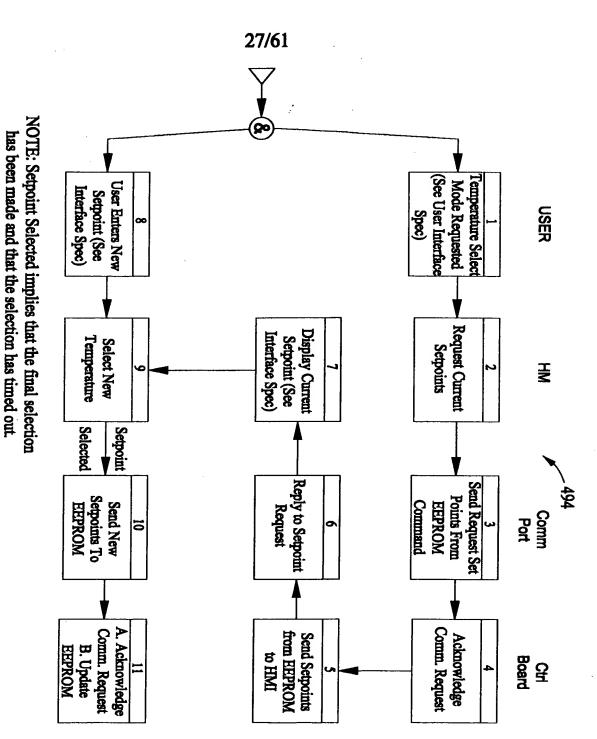




Thomas M. Fisher; ARMSTRONG TEASDALE LLP
One Metropolitan Square, Suite 2600, St. Louis MO 63102
(314) 621-5070

Express Mail No.: EV263879983US

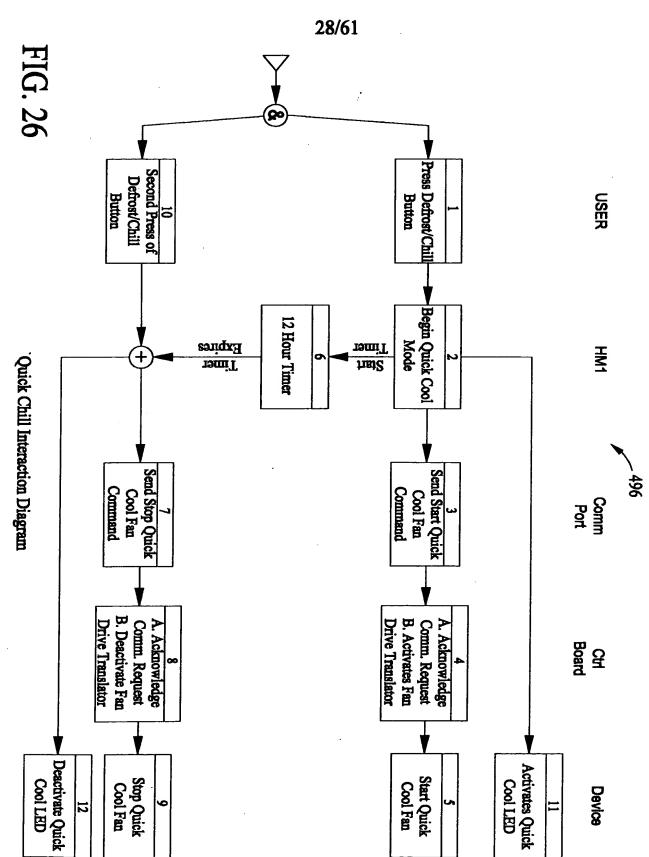




Temperature Setting Interaction Diagrams

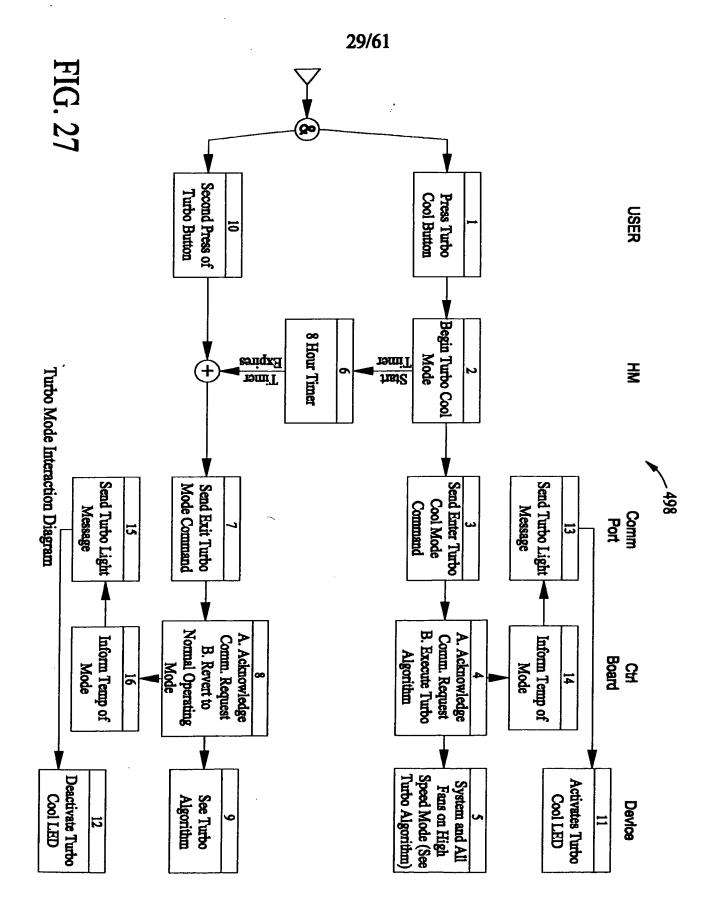


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





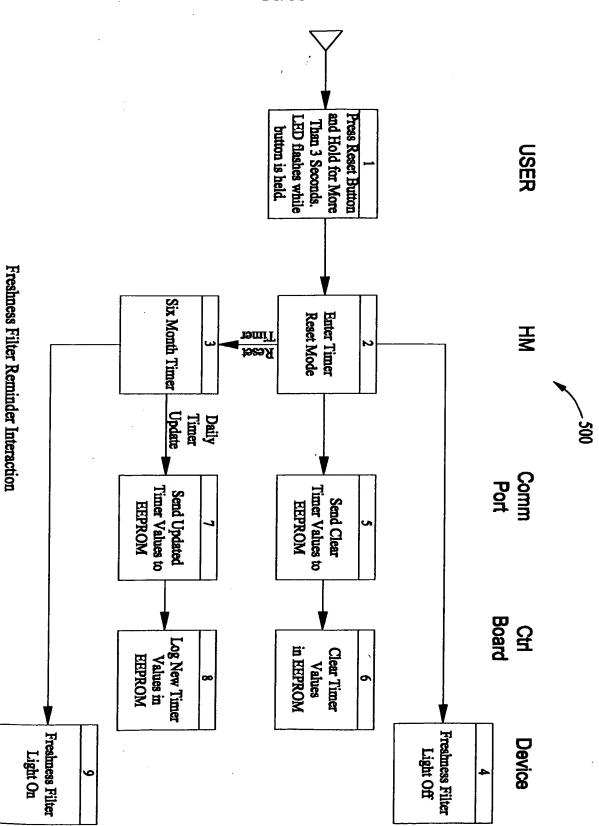
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US



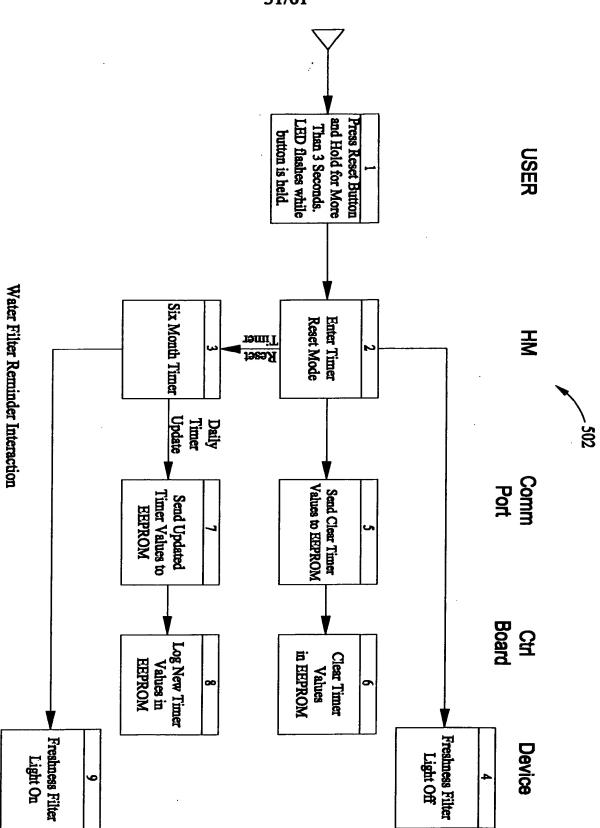


Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -

ELECTRONICS ARCHITECTURE;

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

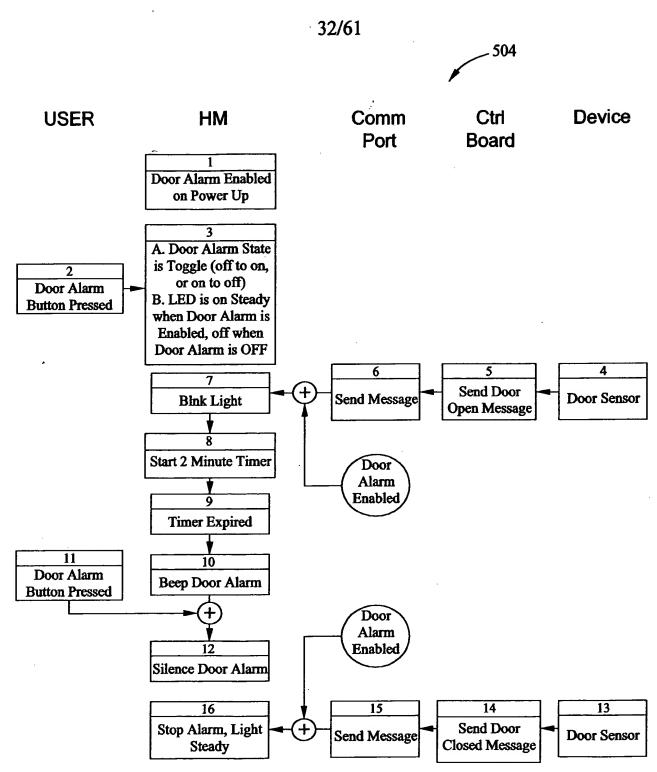
Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102

> (314) 621-5070 Express Mail No.: **EV263879983US**

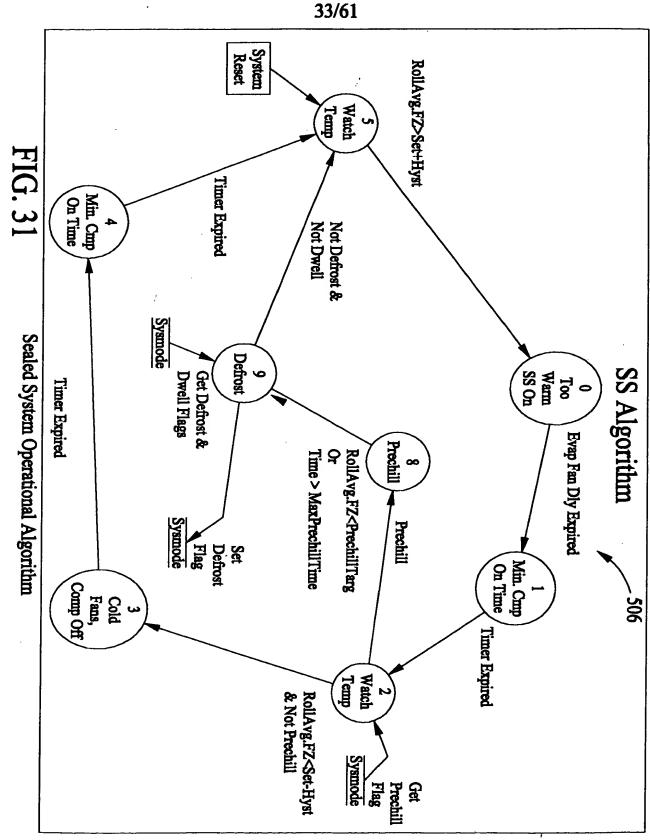


Door Open Interaction Diagram

FIG. 30

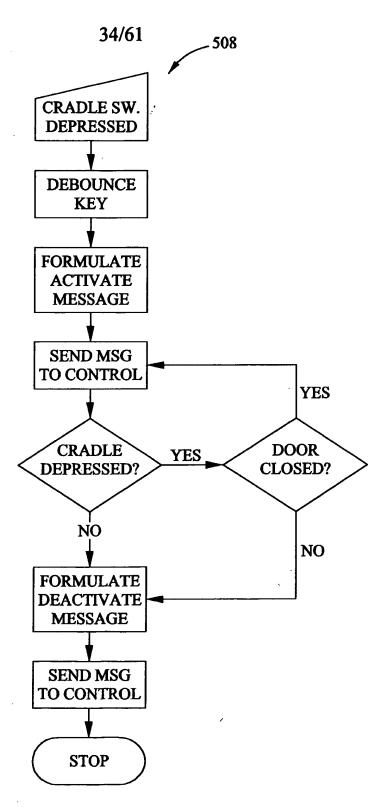


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



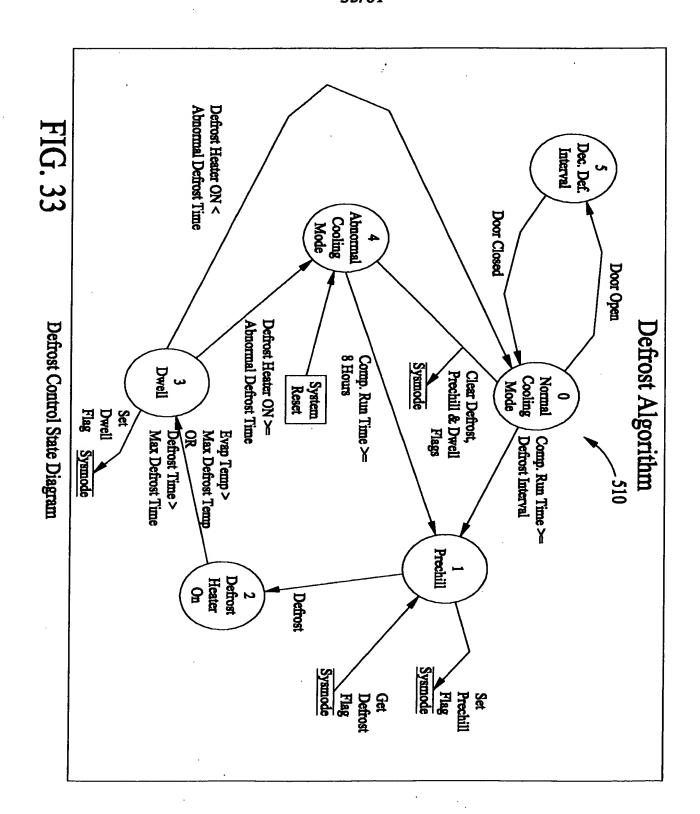
Dispenser Control Algorithm

FIG. 32



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

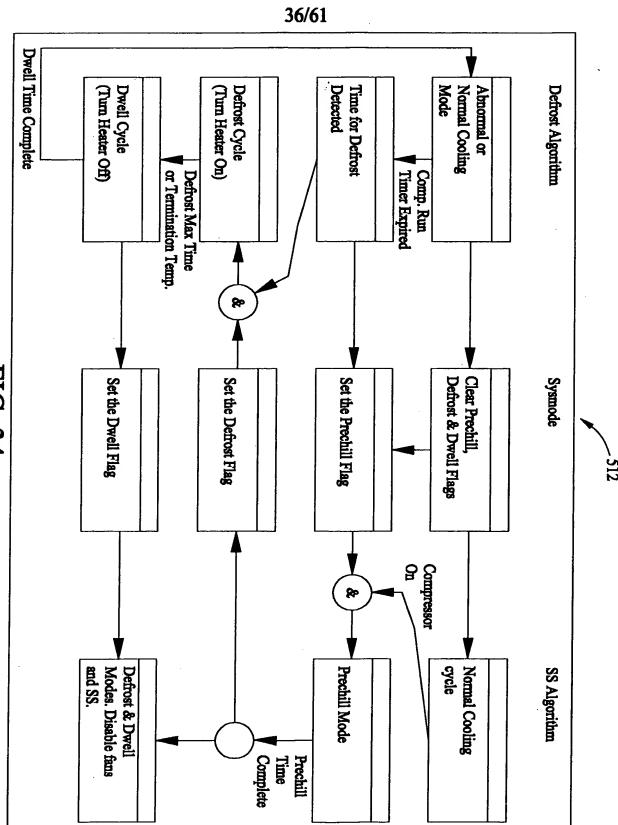
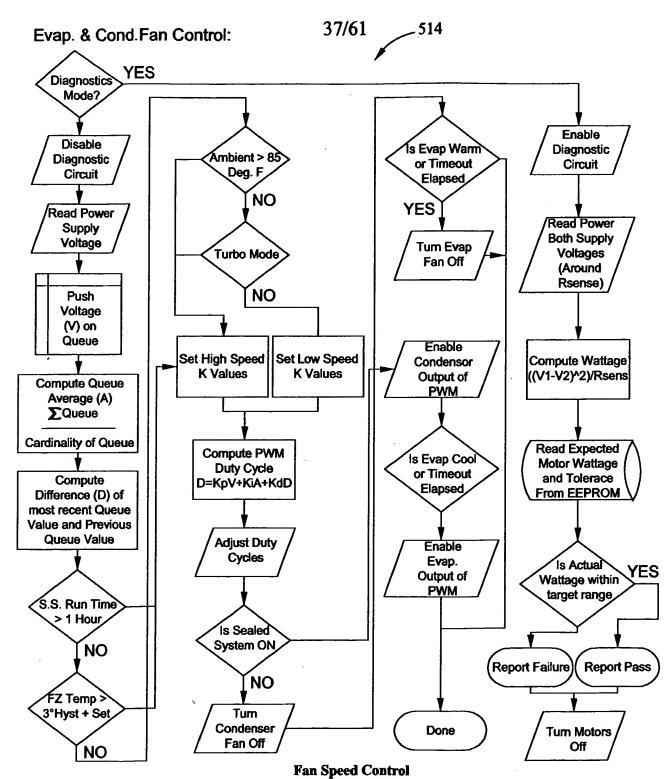


FIG. 34



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US



Notes: 1. The FF & Evaporator fans will shut off for the first five minutes that the door is open 2. Only one fan at a time can be on at a time during diagnostics.

3. Once the fan has been switched to high speed, it remains in that state until the operational cycle is complete. FIG. 35



Appl.: Holmes, et al.; Serial No.: 09/742,545; Filèd: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -ELECTRONICS ARCHITECTURE; Thomas M. Figher: ARMSTRONIC TEASON ELLIP

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

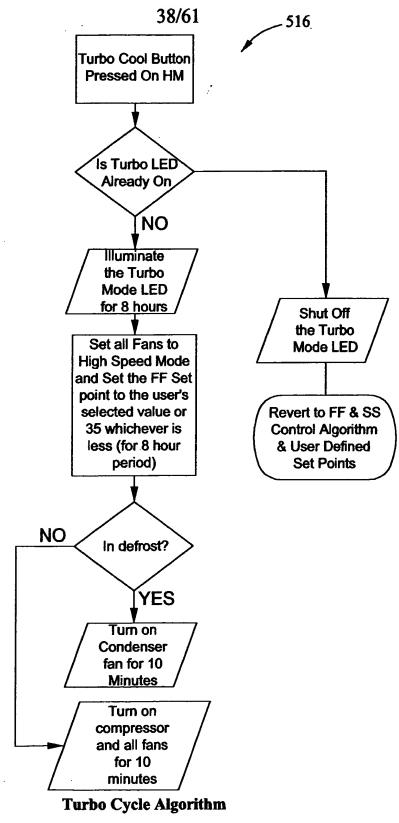
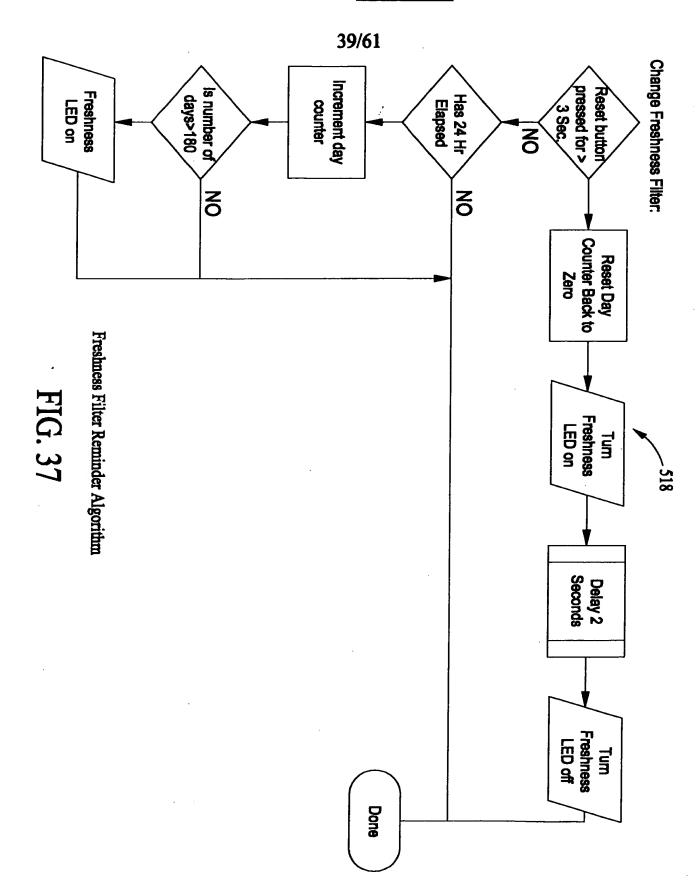


FIG. 36

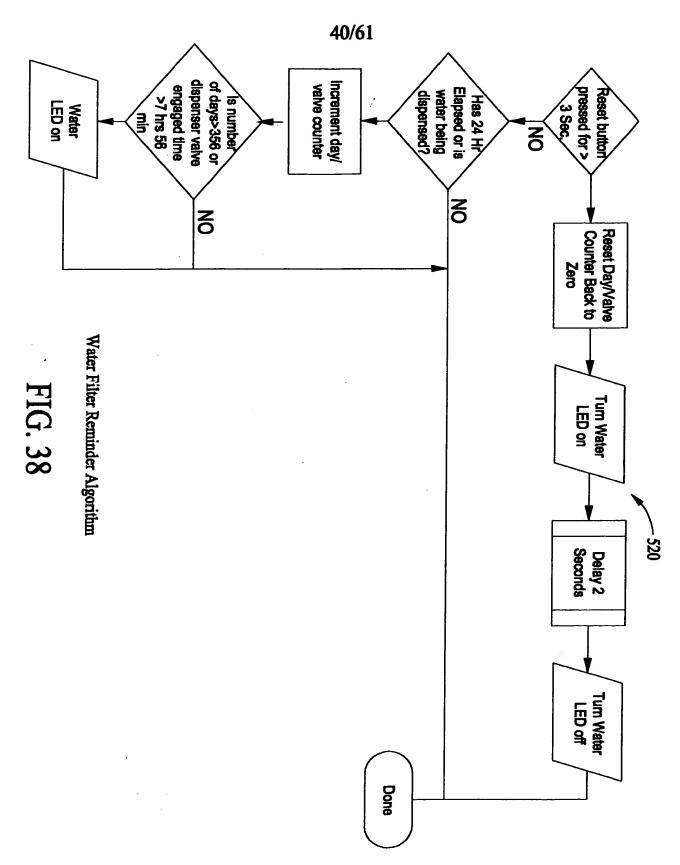


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000
Atty. Dkt. No.: 9D-HR-19396; For:. REFRIGERATOR ELECTRONICS ARCHITECTURE;
Thomas M. Fisher; ARMSTRONG TEASDALE LLP
One Metropolitan Square, Suite 2600, St. Louis MO 63102
(314) 621-5070

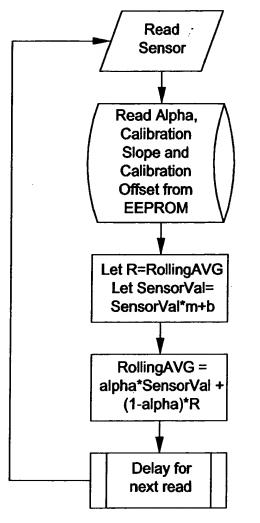




Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US



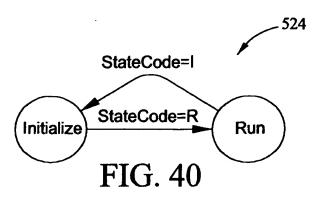


## **NOTE:**

**Sensor Reading Algorithm** 

Fresh food average uses this algorithm twice to create a 2nd pole filter.

FIG. 39





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

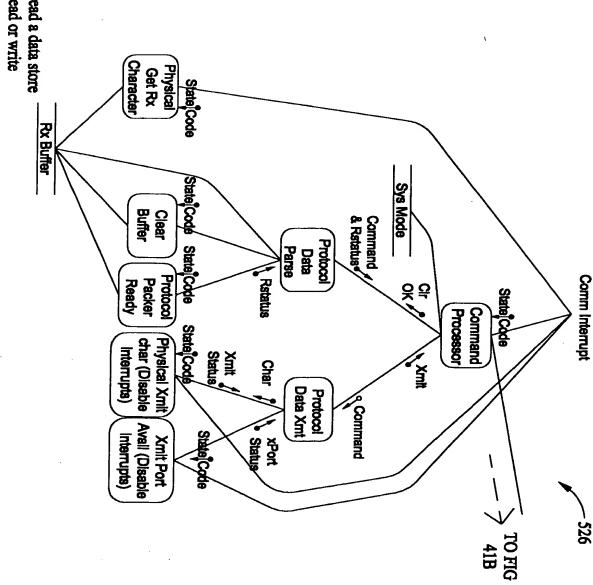
42/61

Note: Any Routine is allowed to read a data store
The command processor can read or write

any data store.

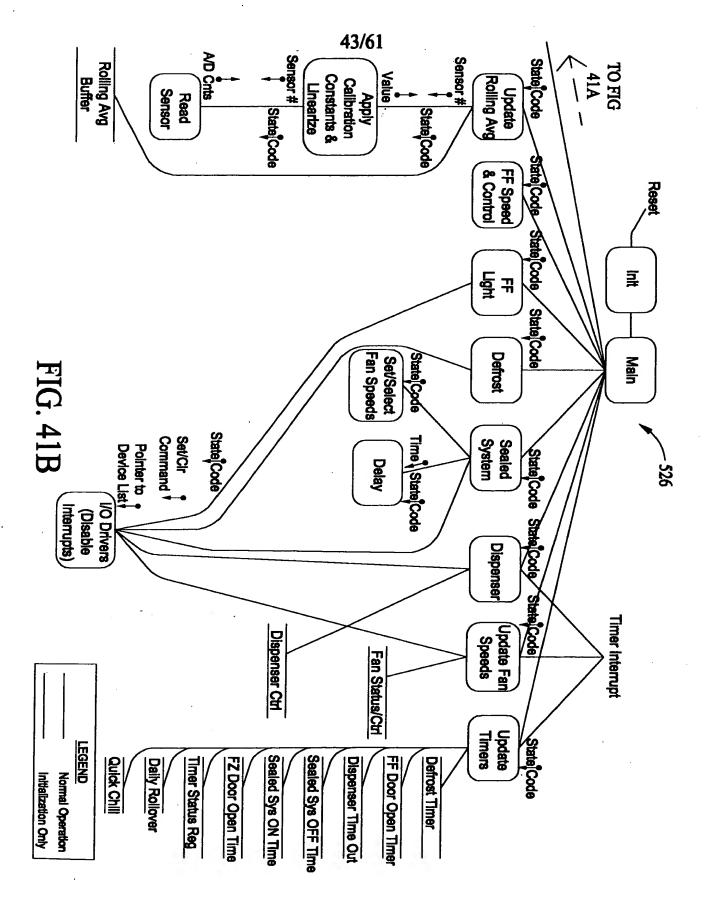
Dashed line indicates a path for initialization only

FIG. 41A





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

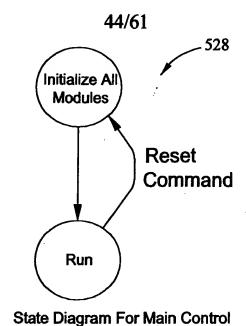
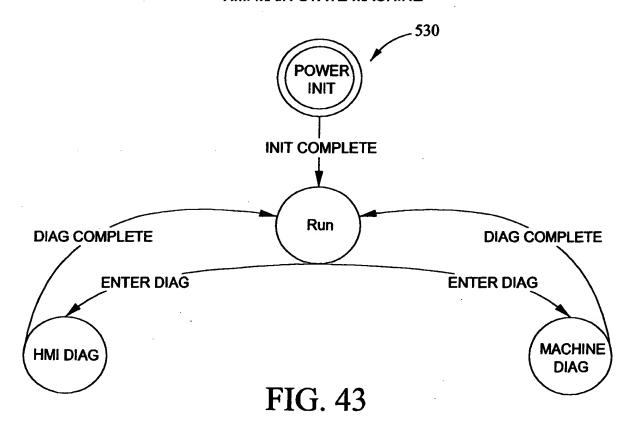


FIG. 42

#### **HMI MAIN STATE MACHINE**

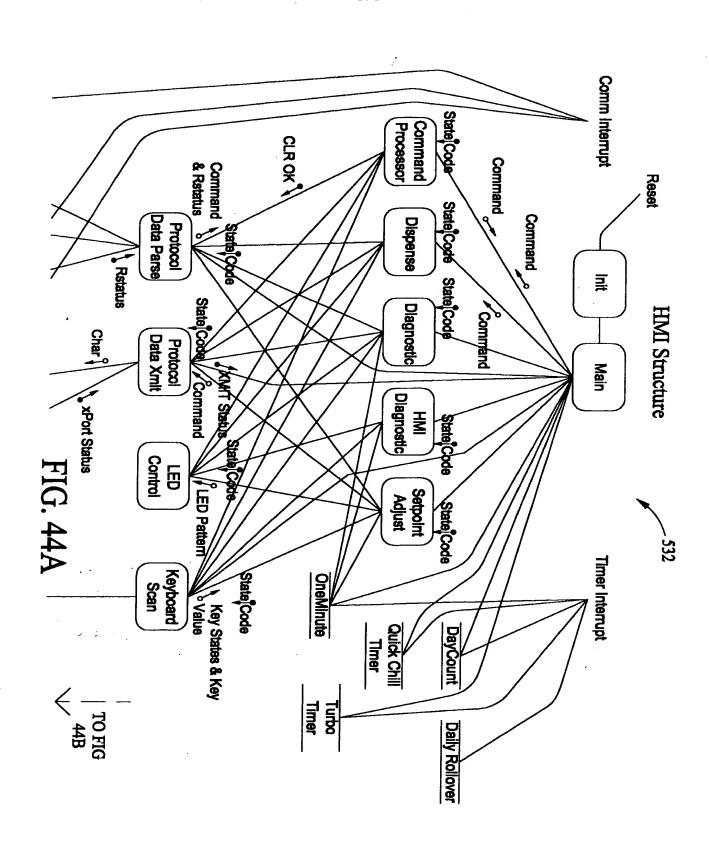




Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

# 45/61





Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000
Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR ELECTRONICS ARCHITECTURE;
Thomas M. Fisher: ARMSTRONG TEASDALE LLP

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

# 46/61

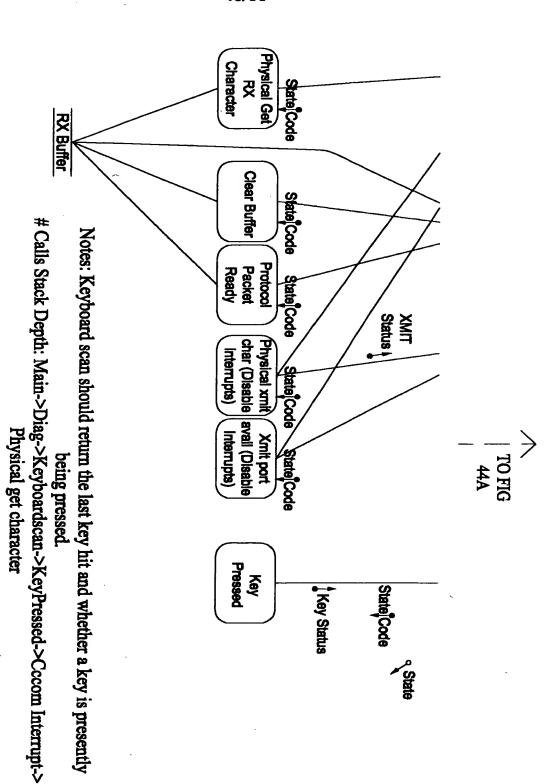
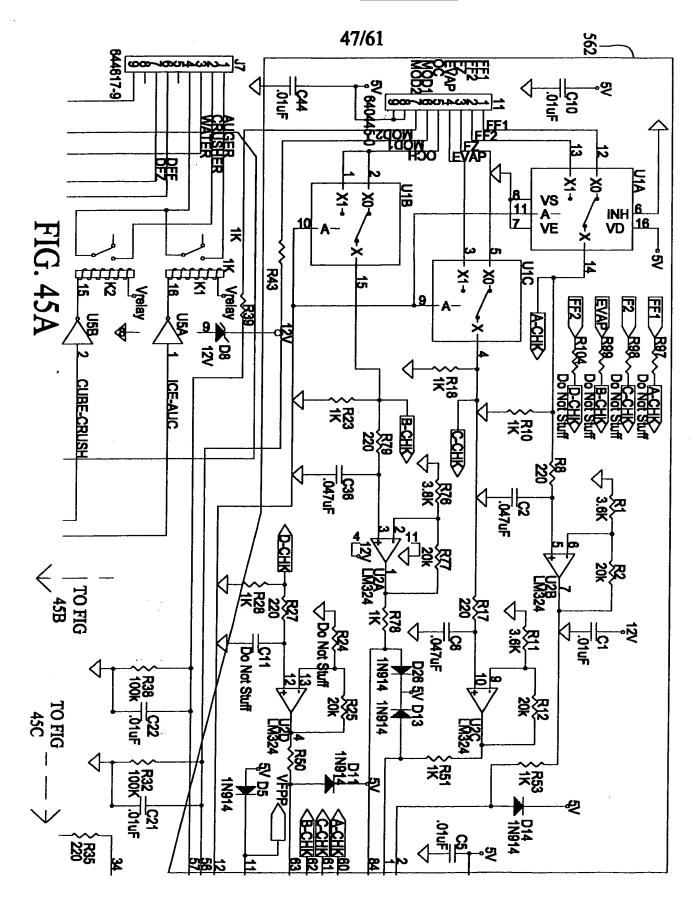


FIG. 44B

JAN 1 6 2003 BY

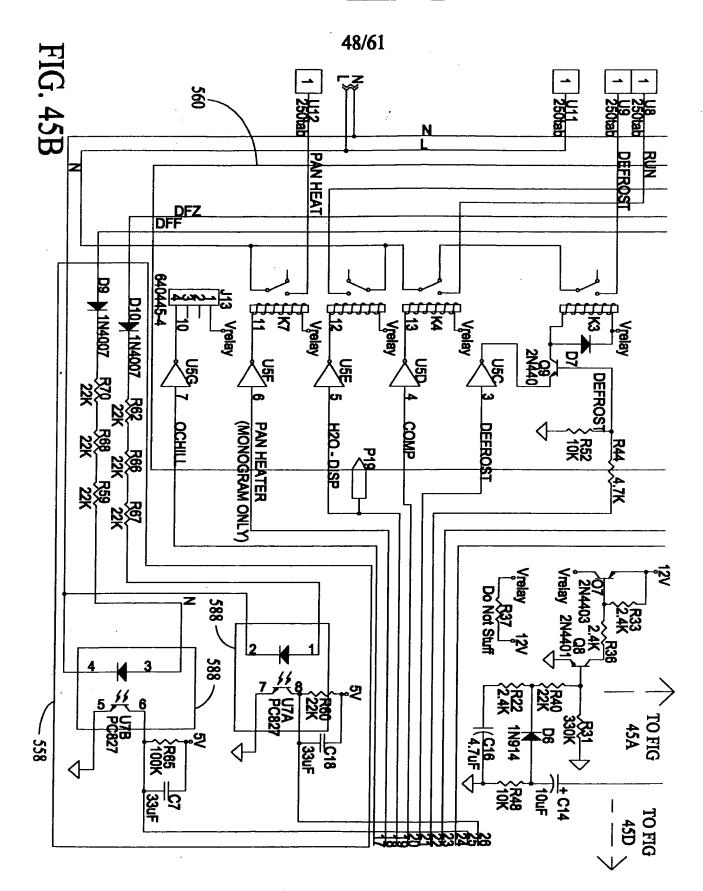
Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -ELECTRONICS ARCHITECTURE;

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



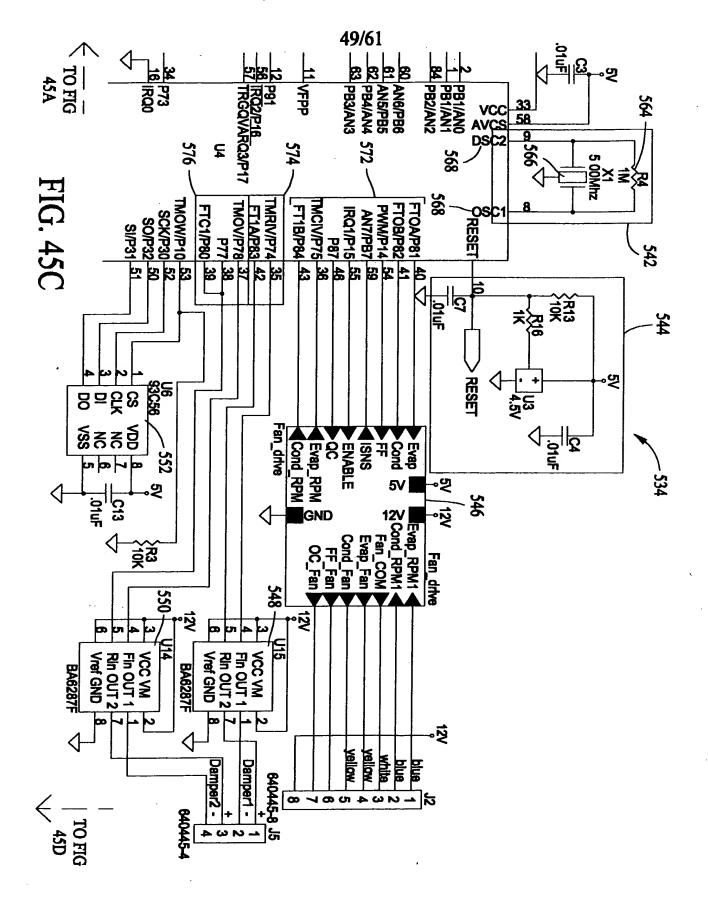


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



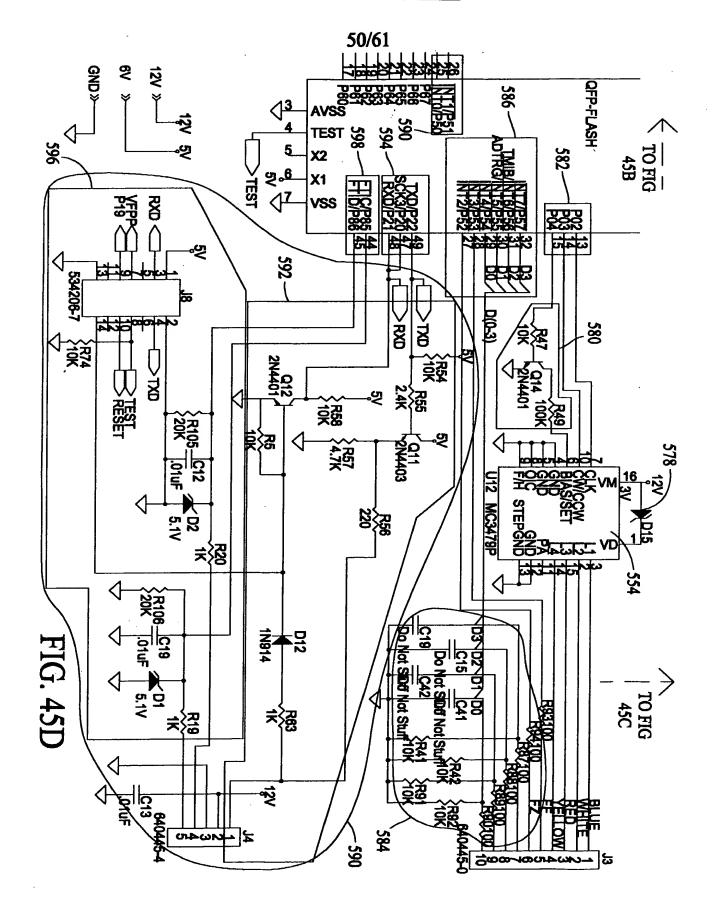


Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

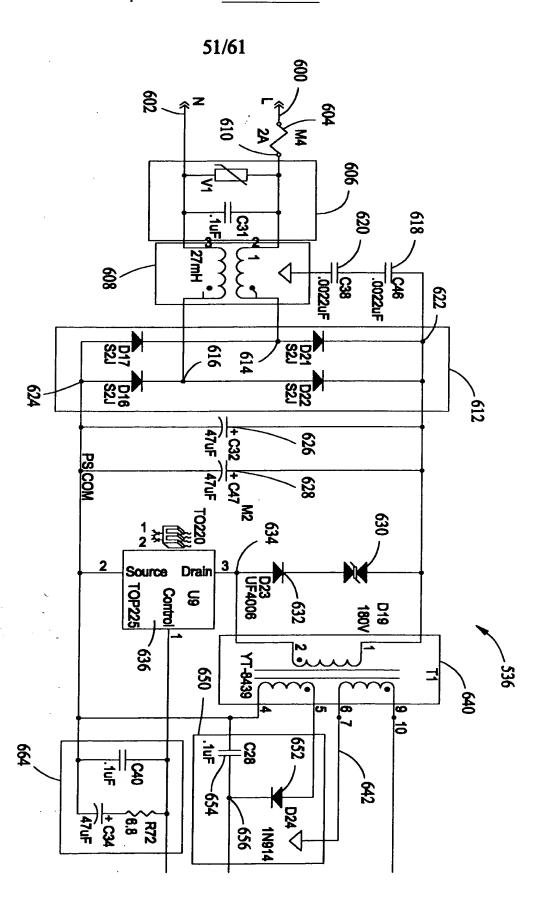
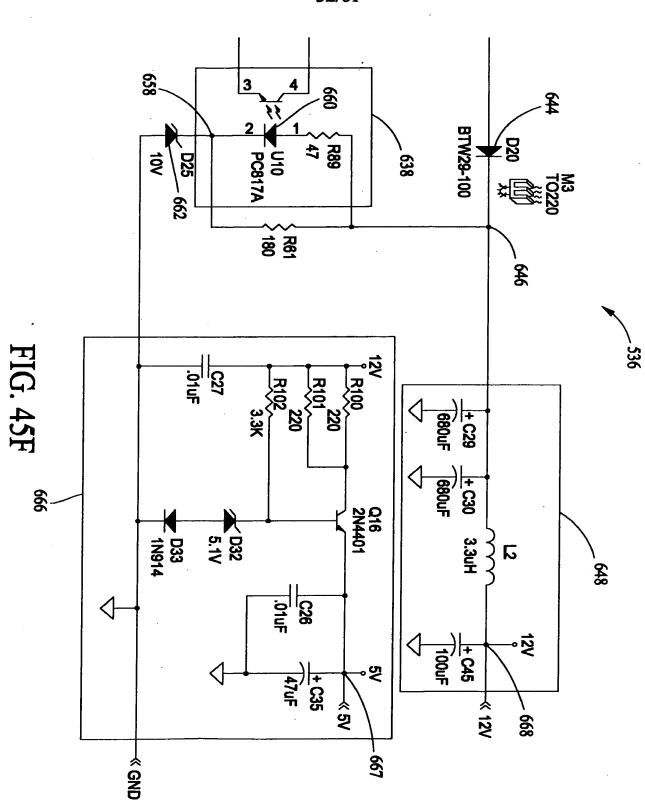


FIG. 45E



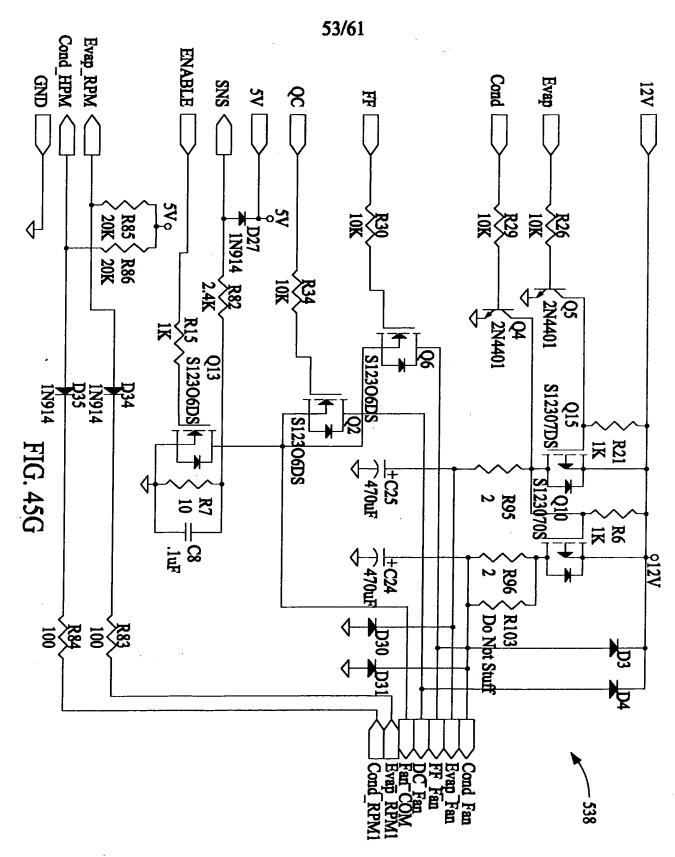
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070







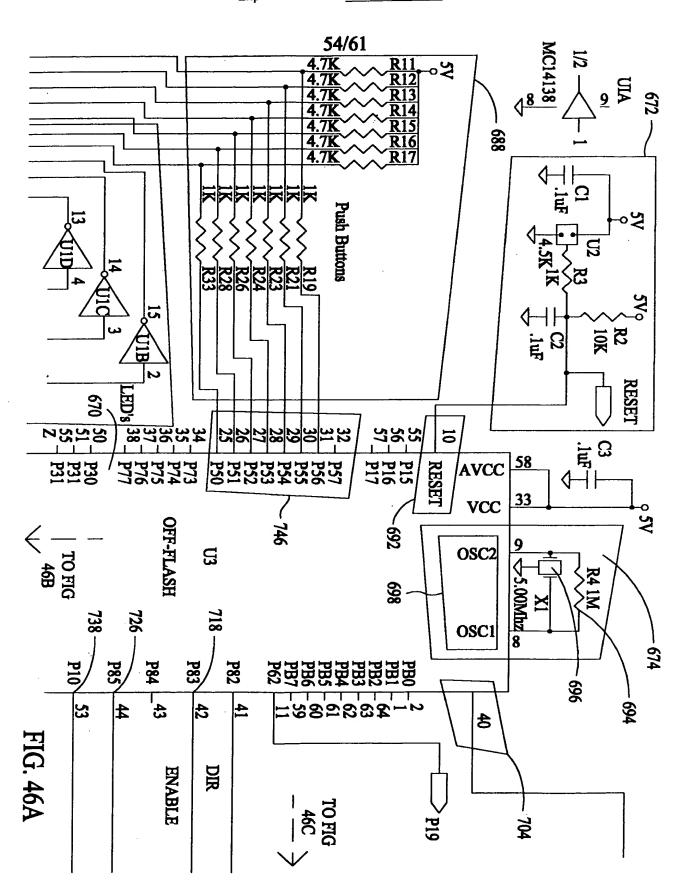
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



JAN 1 6 2003

Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -ELECTRONICS ARCHITECTURE;

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

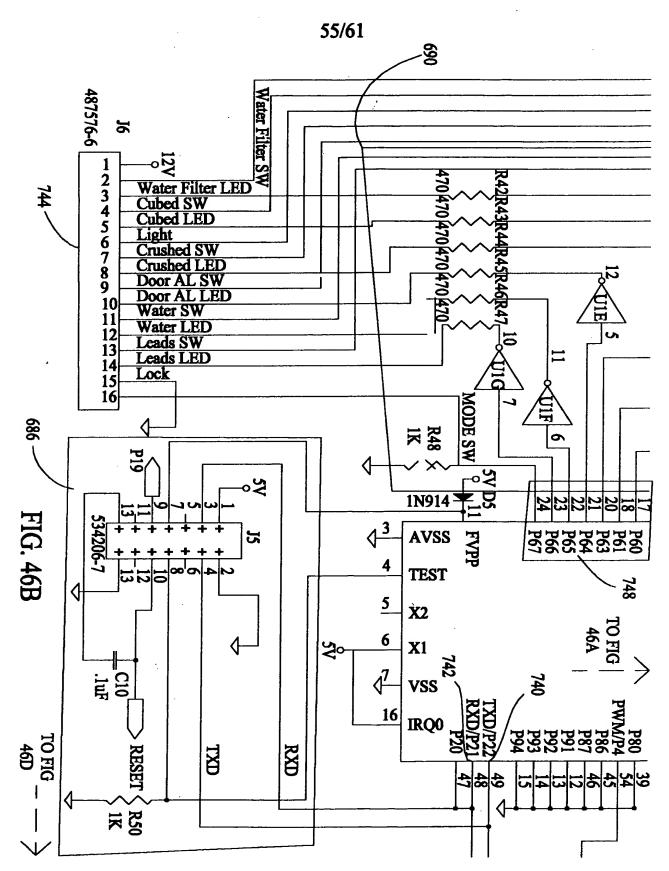




Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -

ELECTRONICS ARCHITECTURE;

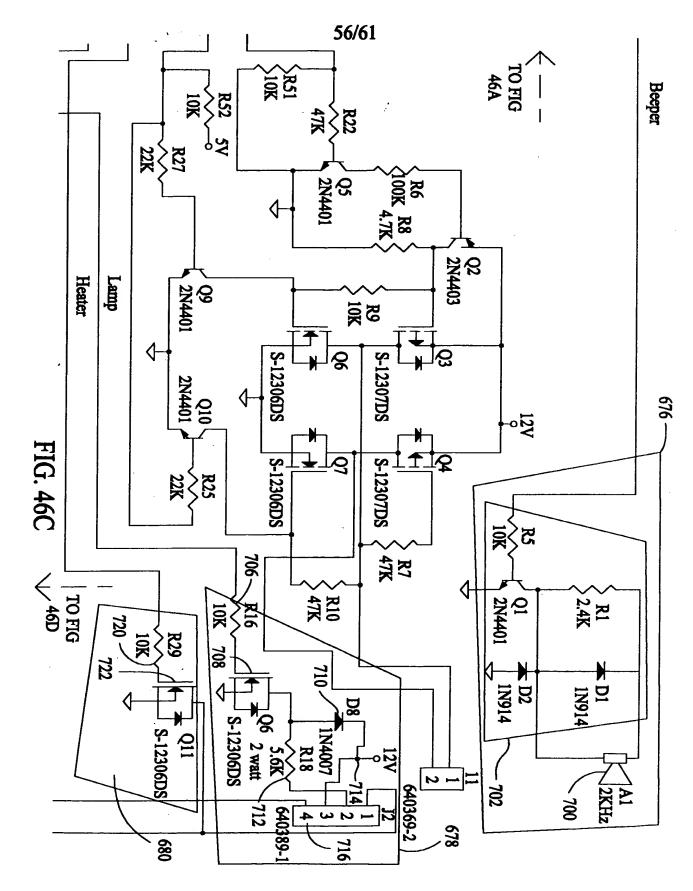
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070



JAN 1 6 2003

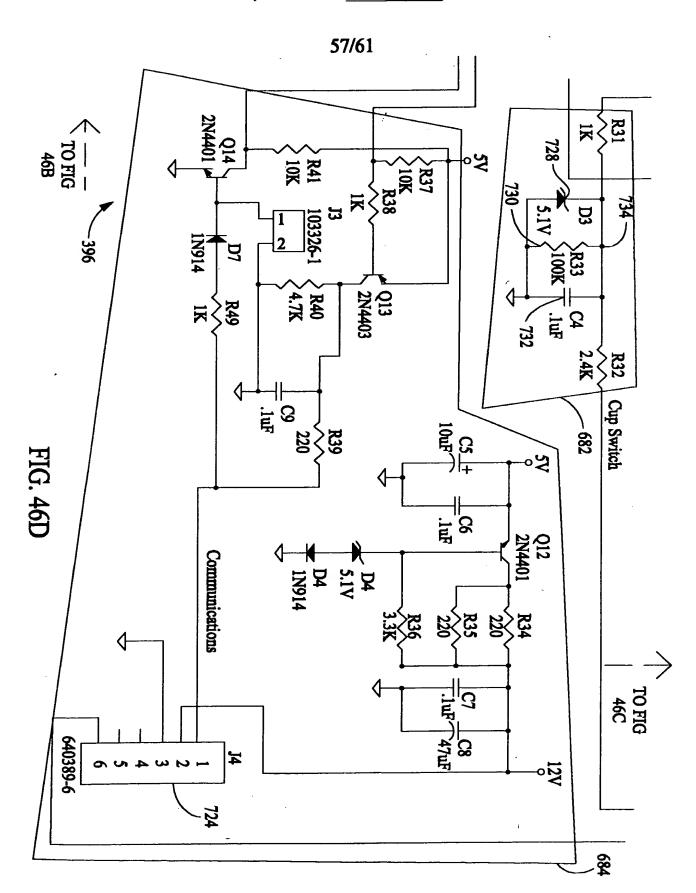
Appl.: Holmes, et al.; Serial No.: 09/742,545; Filed: 12/22/2000 Atty. Dkt. No.: 9D-HR-19396; For: REFRIGERATOR -ELECTRONICS ARCHITECTURE;

Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

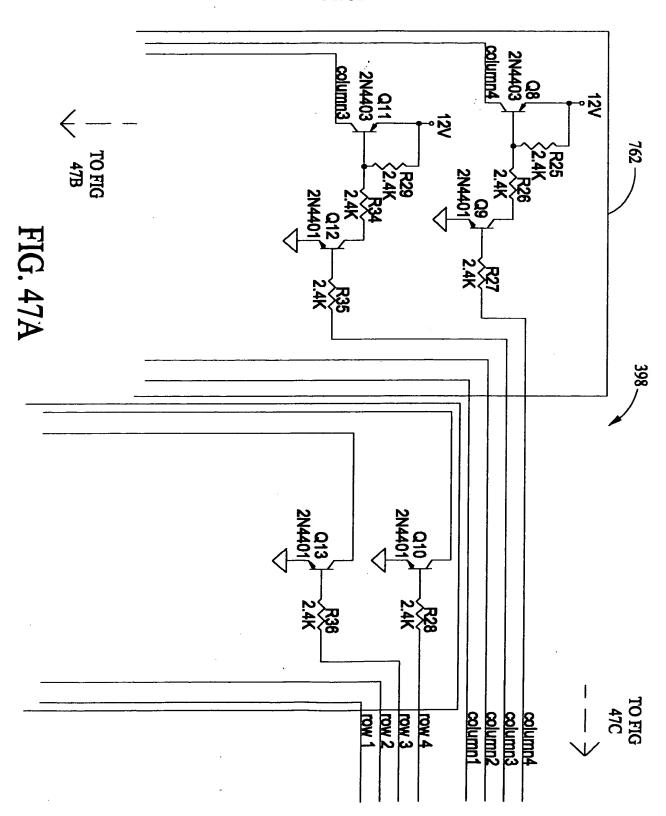




Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070

Express Mail No.: EV263879983US

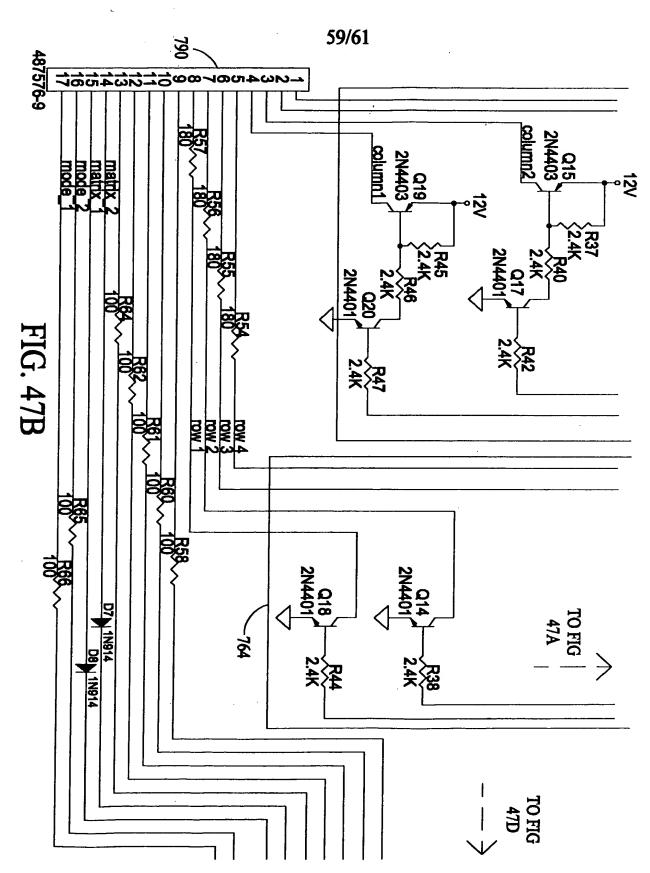
### 58/61





Thomas M. Fisher; ARMSTRONG TEASDALE LLP

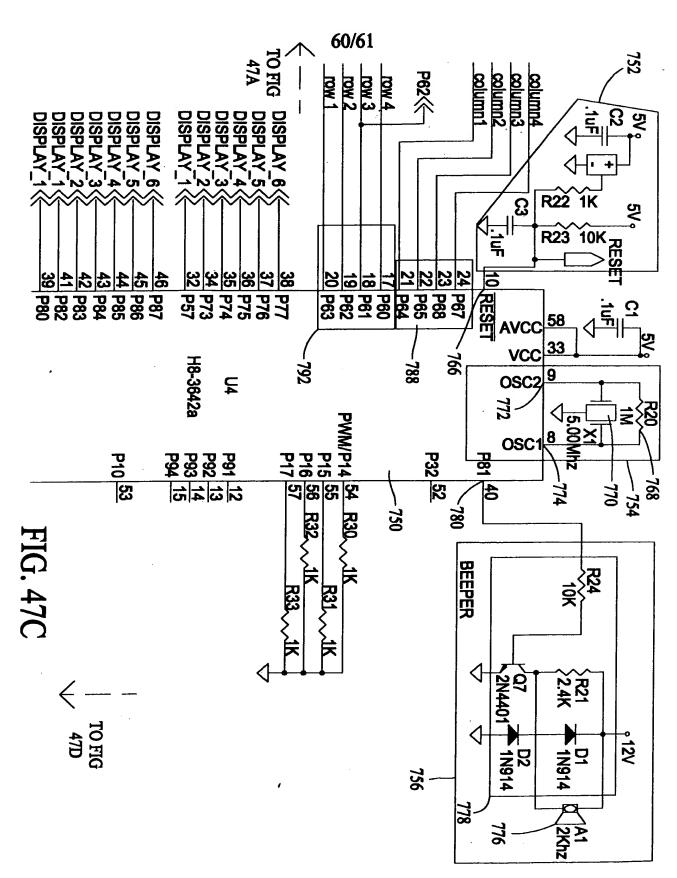
One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070





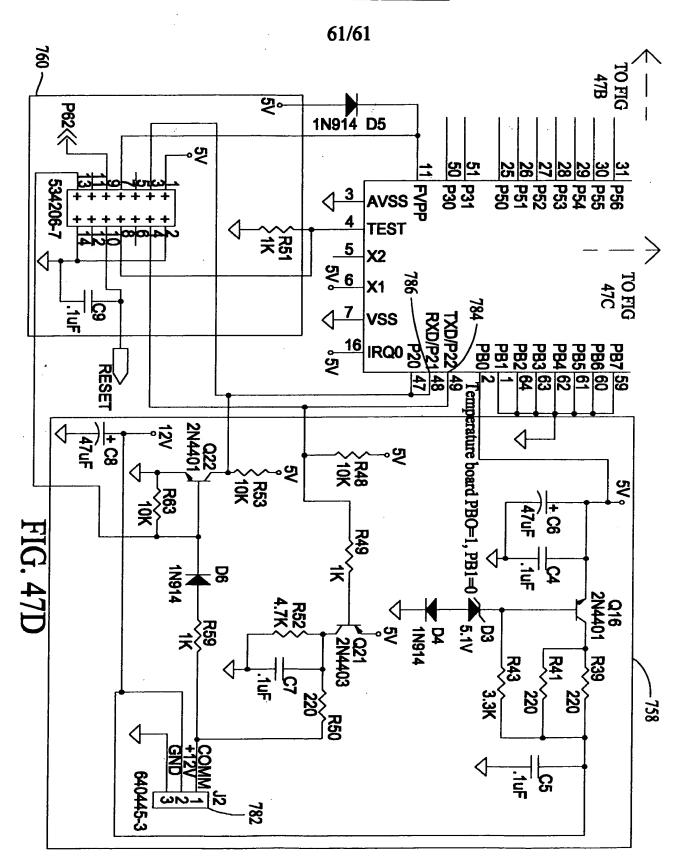
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102

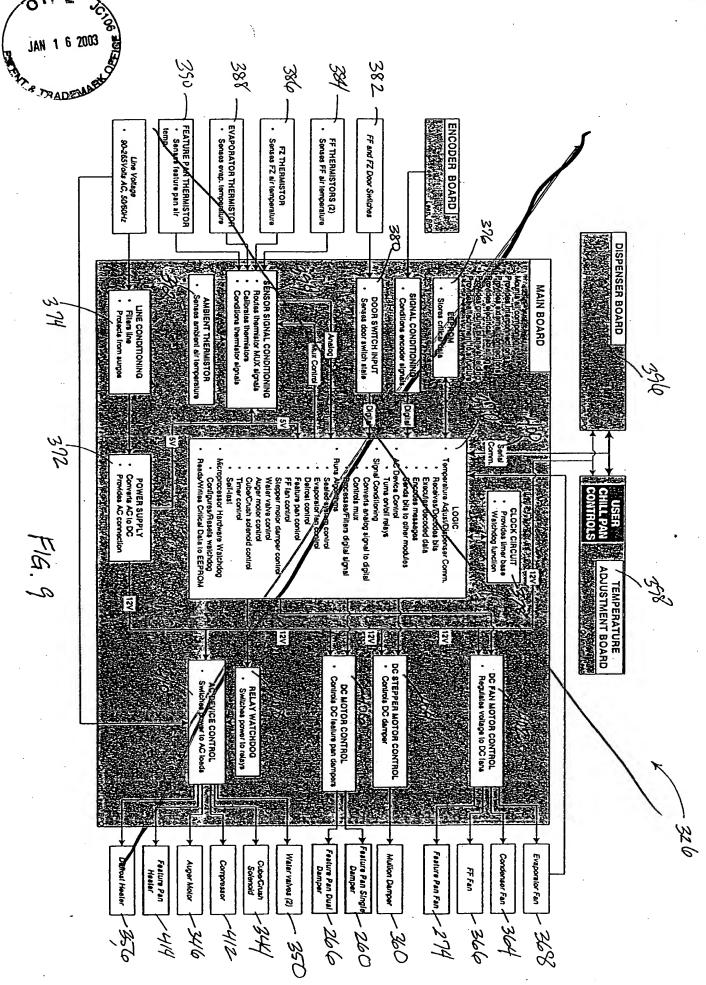
(314) 621-5070



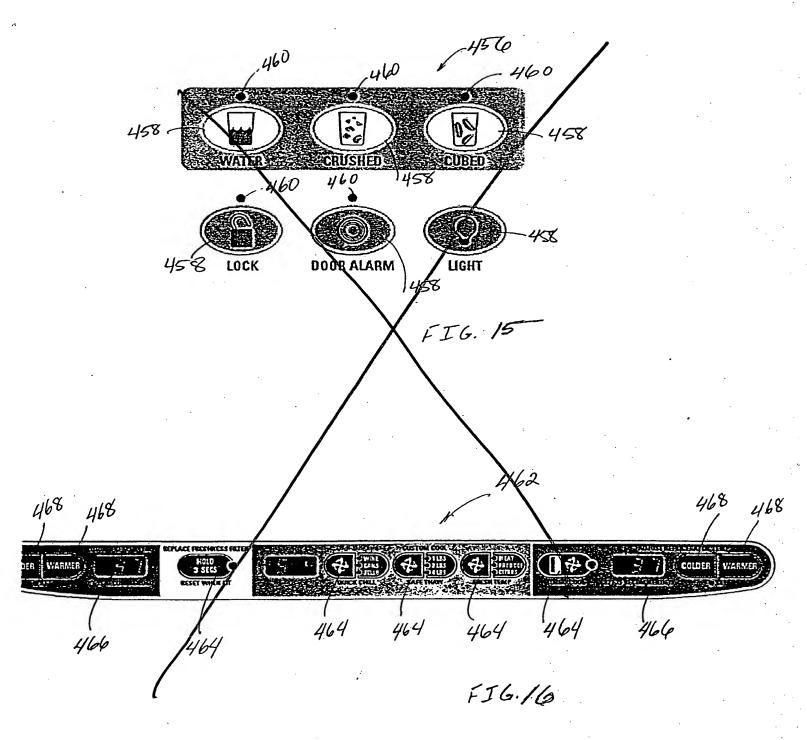


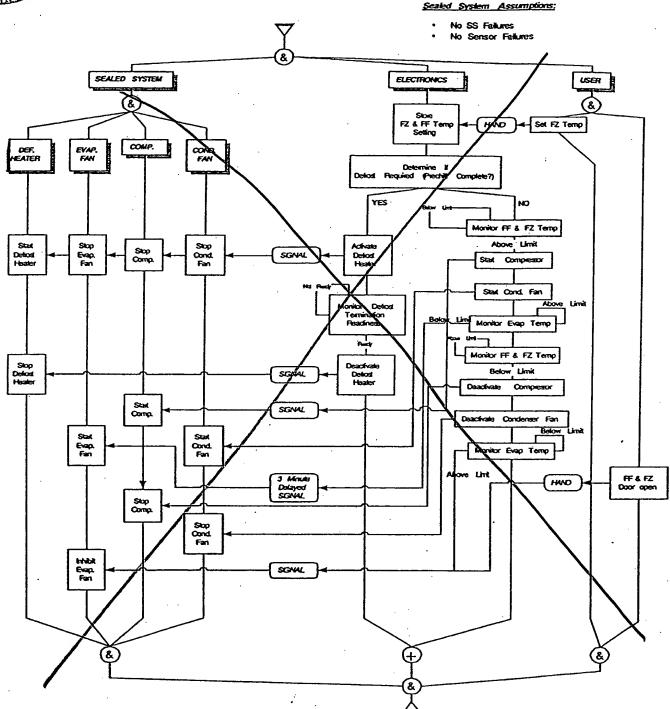
Thomas M. Fisher; ARMSTRONG TEASDALE LLP One Metropolitan Square, Suite 2600, St. Louis MO 63102 (314) 621-5070







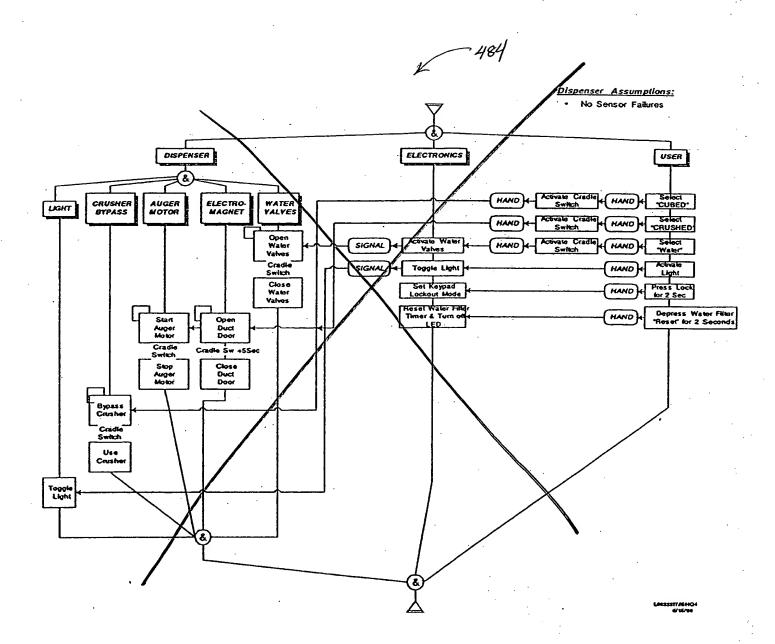




. Sealed System Behavior Diagram

Fig 18





Dispenser Behavior



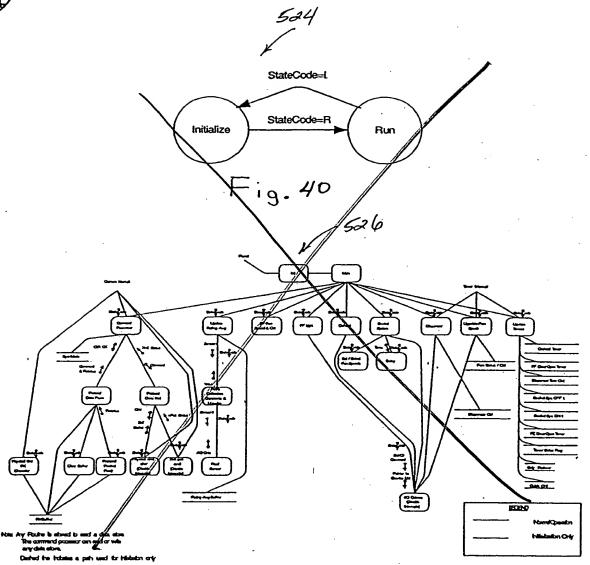
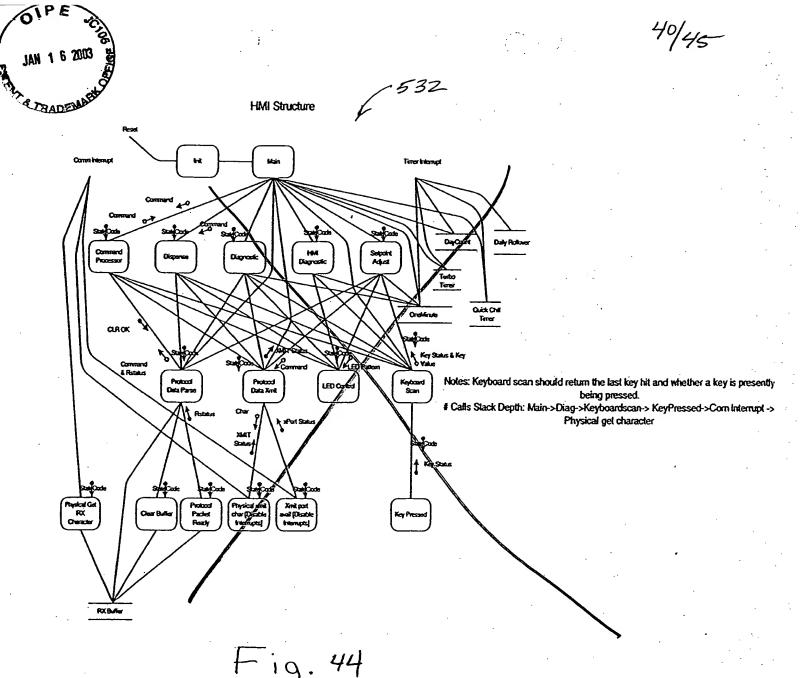
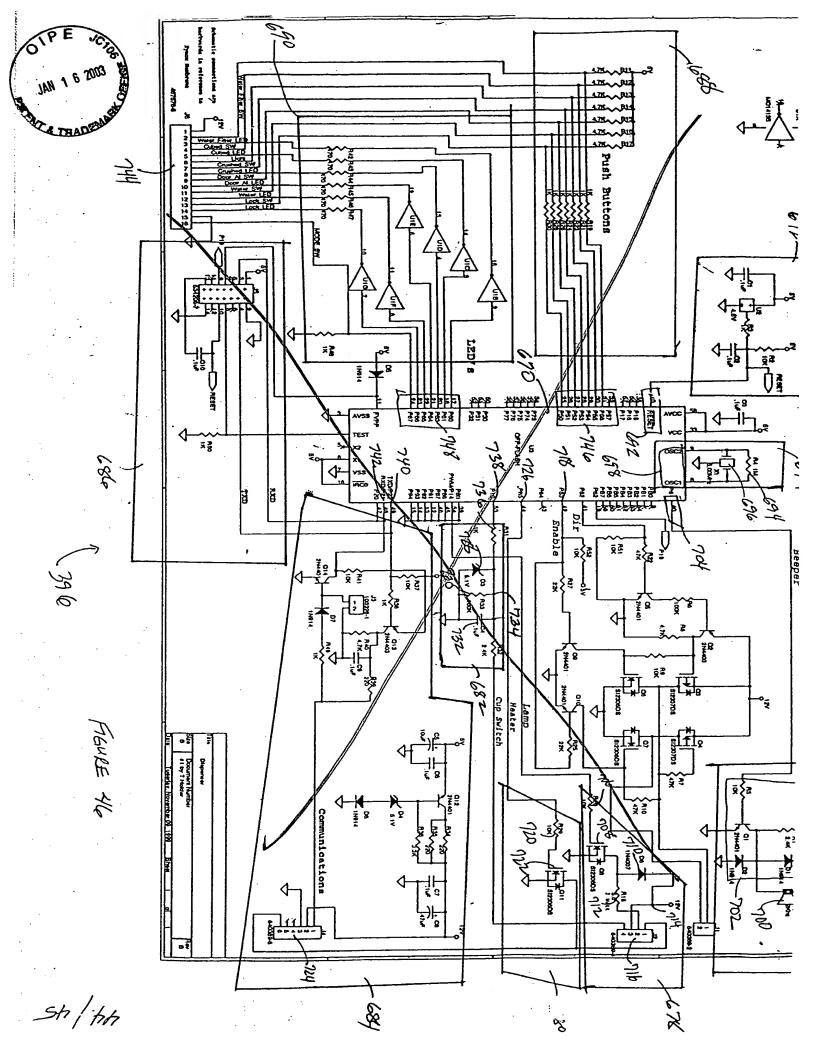
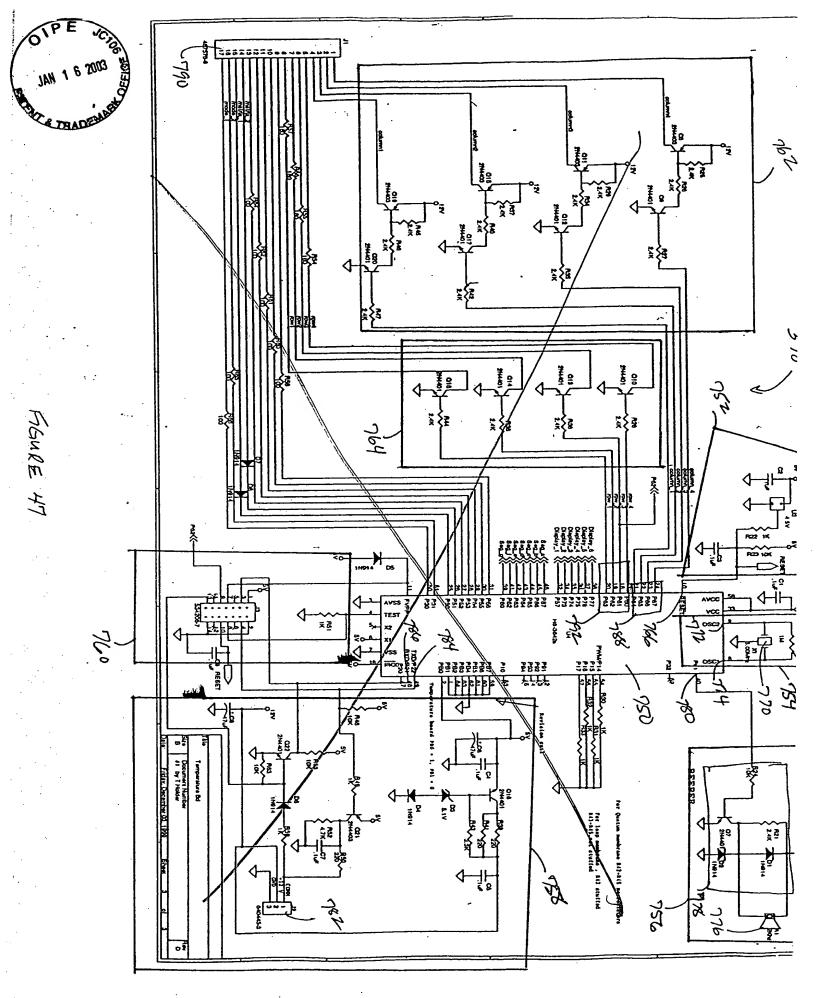


Fig. 41







-St /st



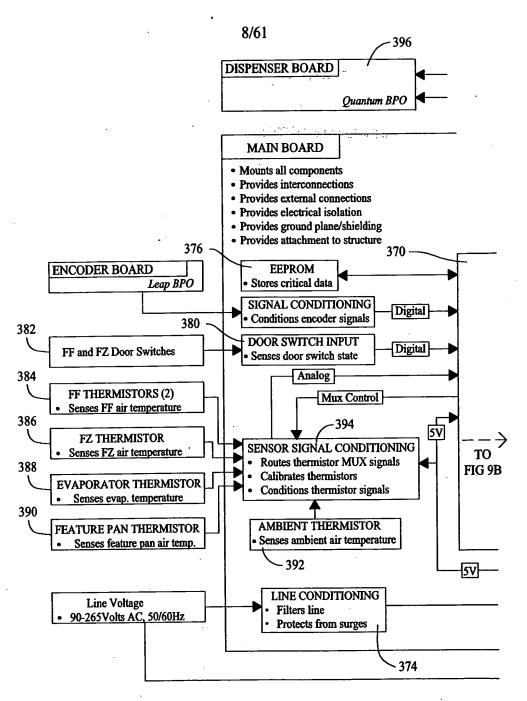
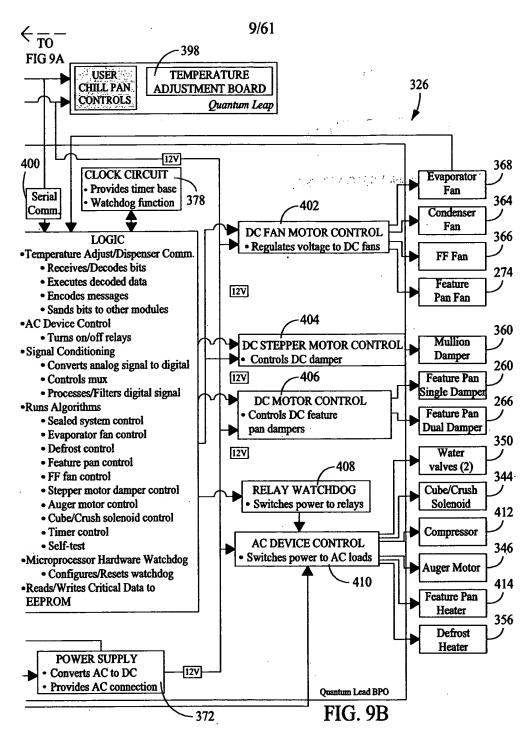


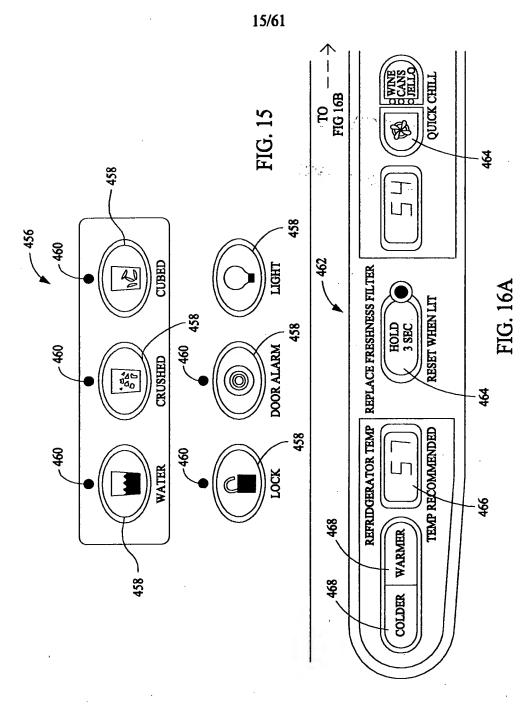
FIG. 9A



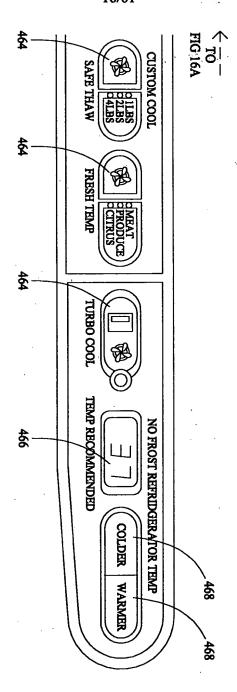




1, 17

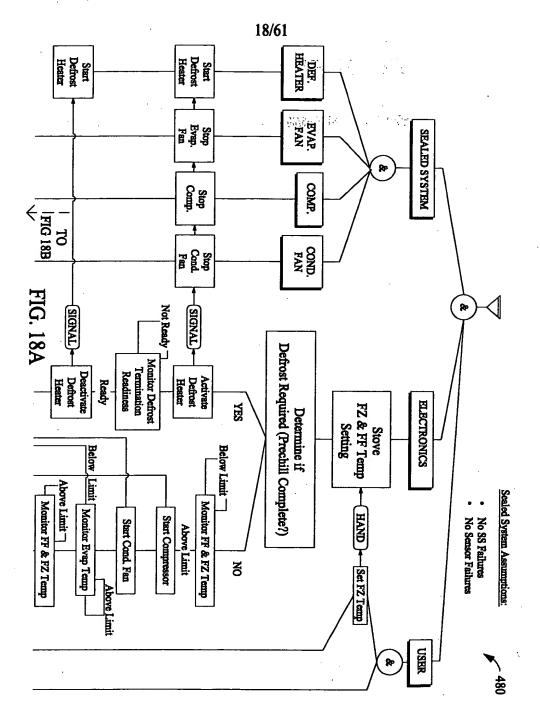




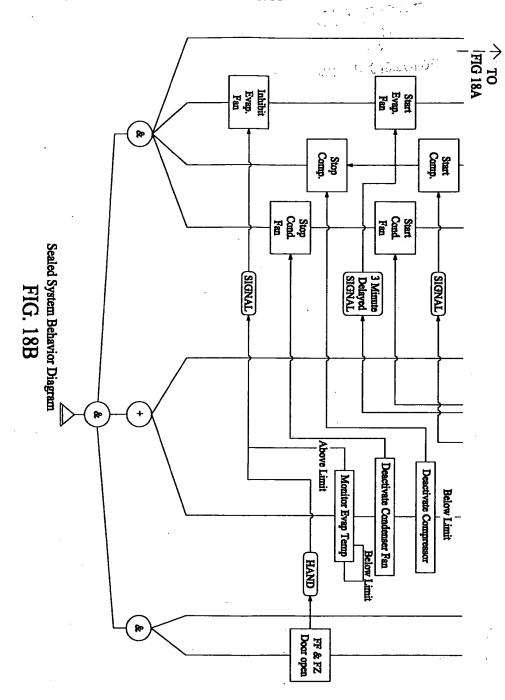


IG. 16B

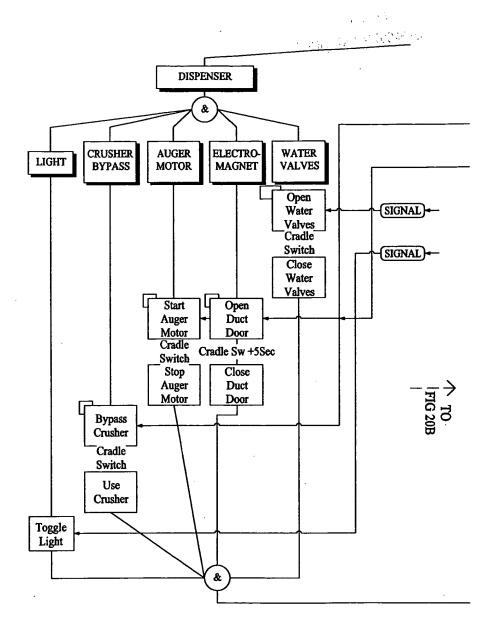






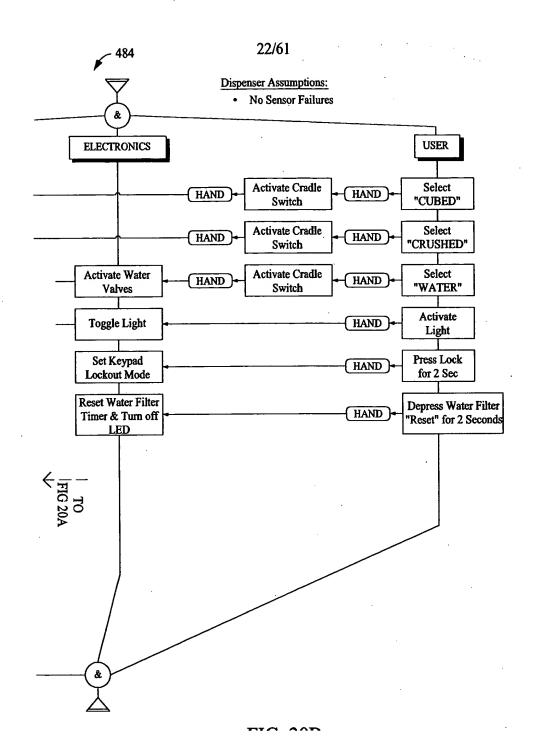






Dispenser Behavior

FIG. 20A

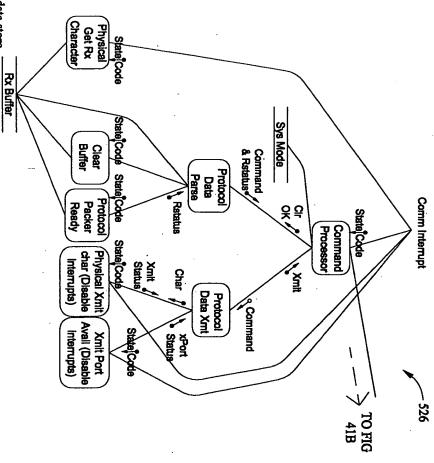




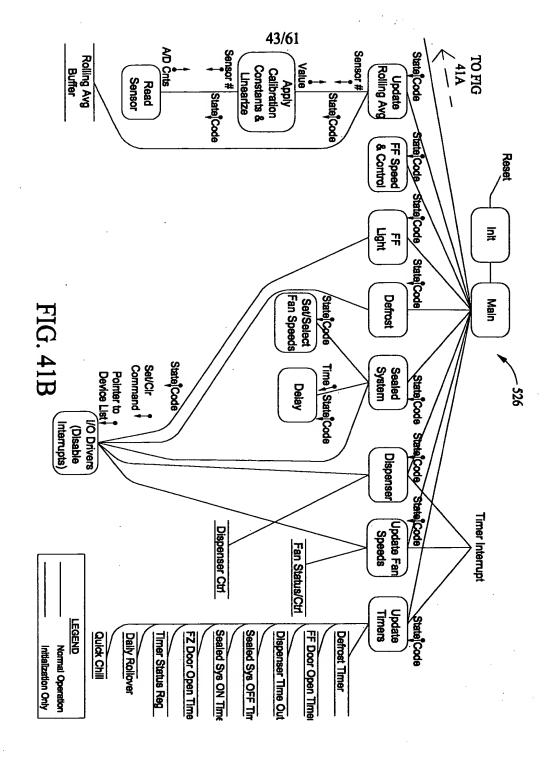
Note: Any Routine is allowed to read a data store
The command processor can read or write any data store.

Dashed line indicates a path for initialization only

FIG. 41A



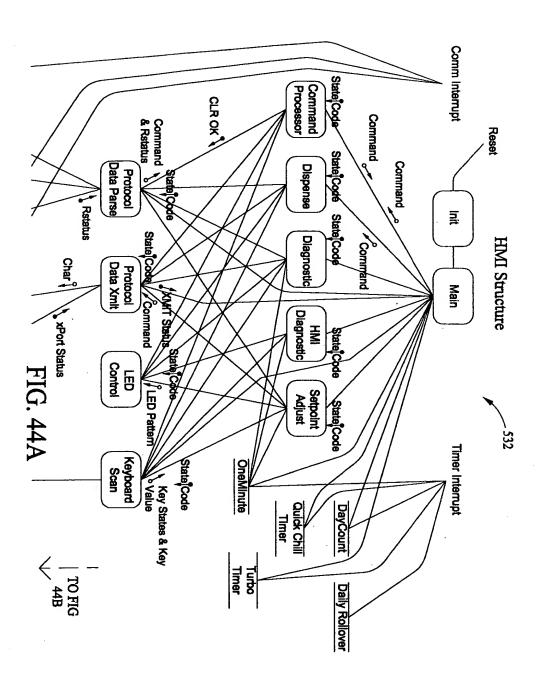




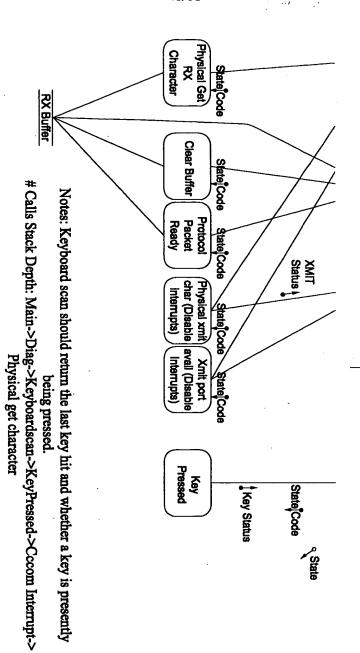
(-ih)

JAN 1 6 2003

A BADEMAR



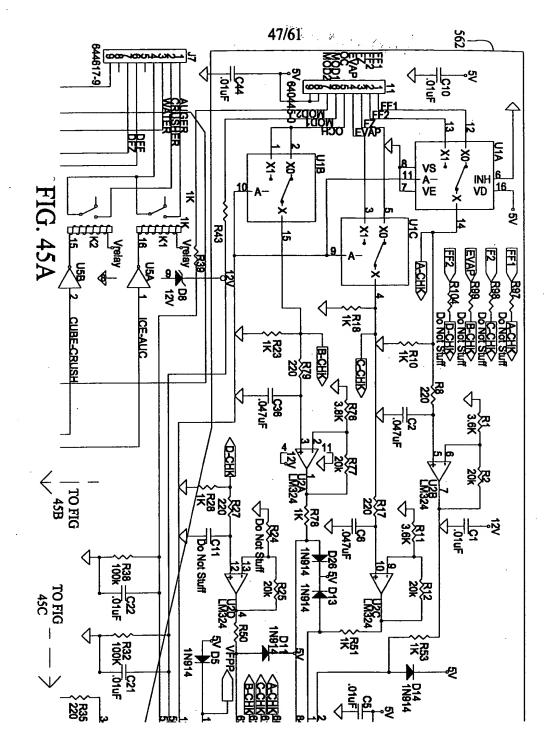




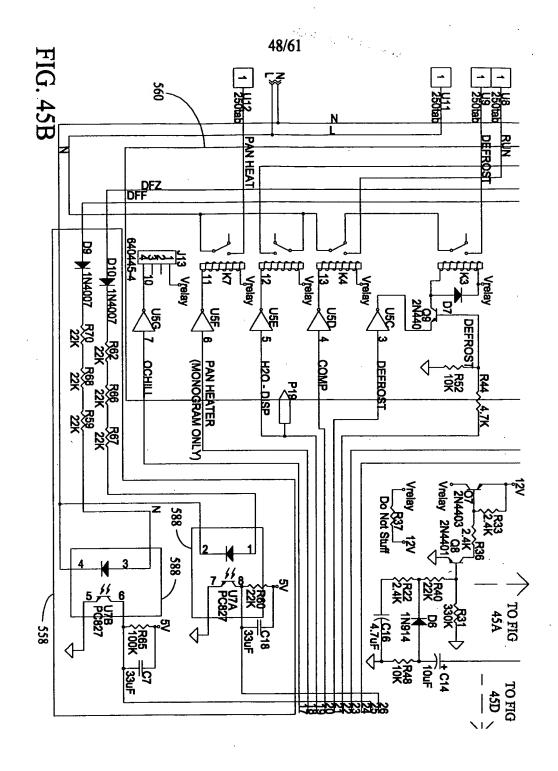
TO FIG

FIG. 44B





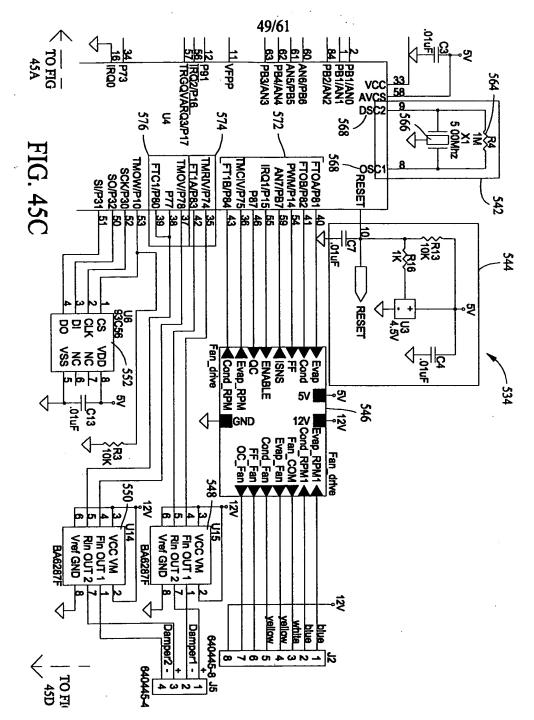




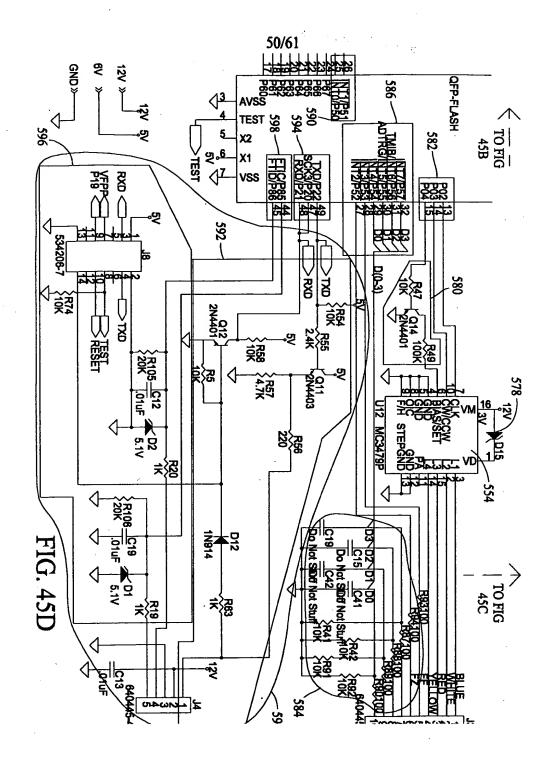


à.

137. 338.









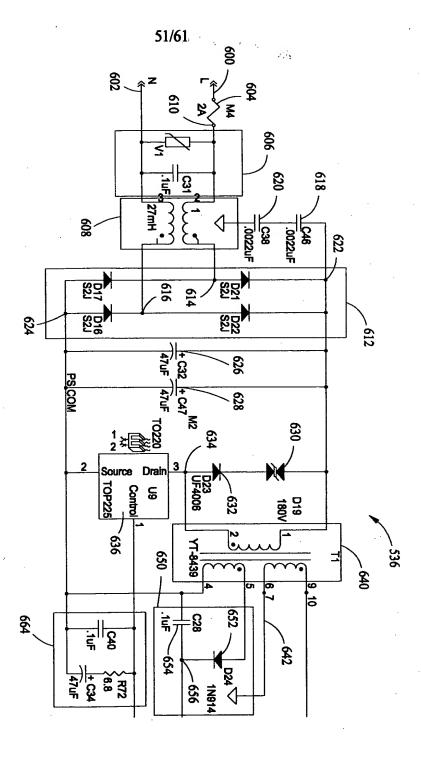
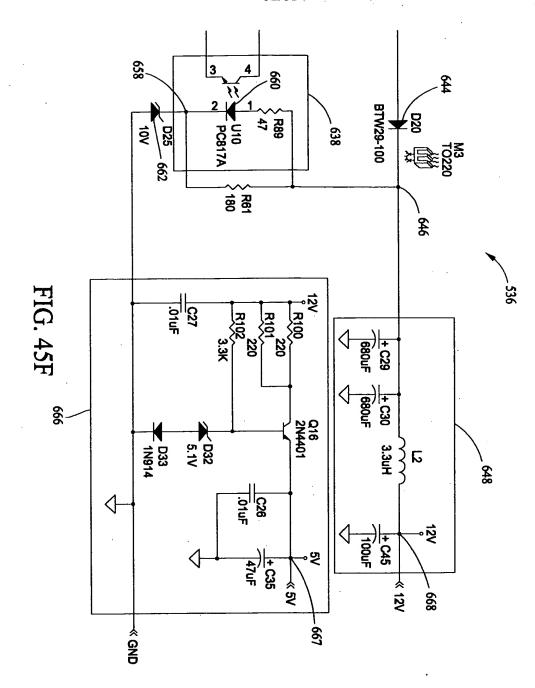
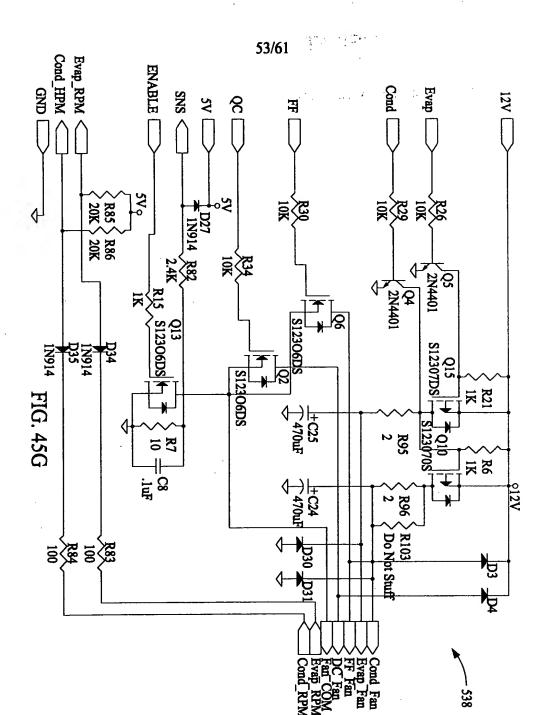


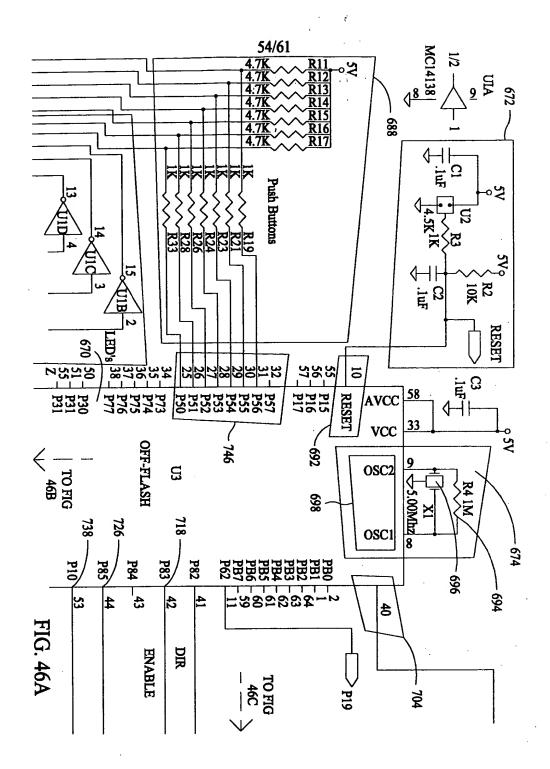
FIG. 45E

JAN 1 6 2003

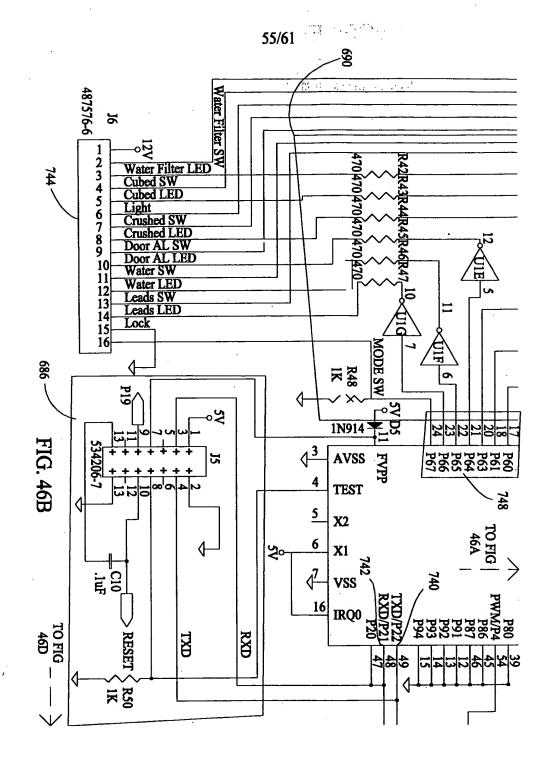




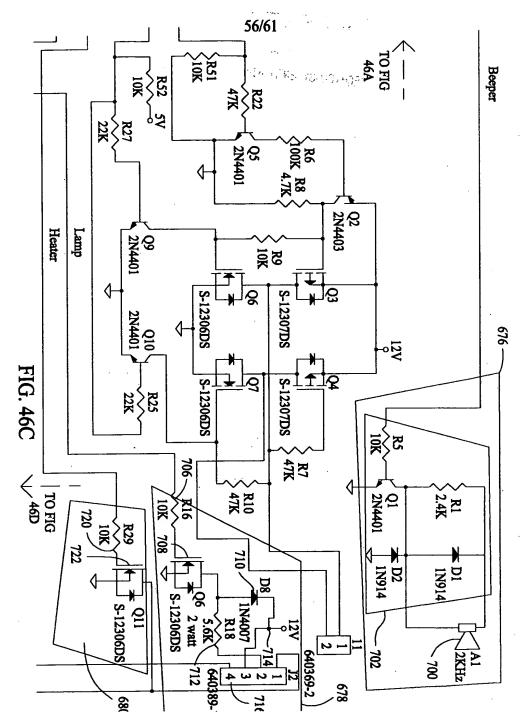




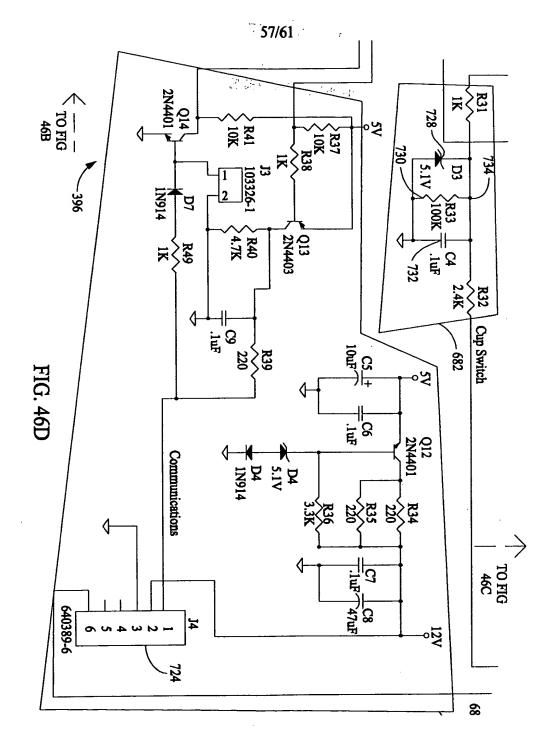






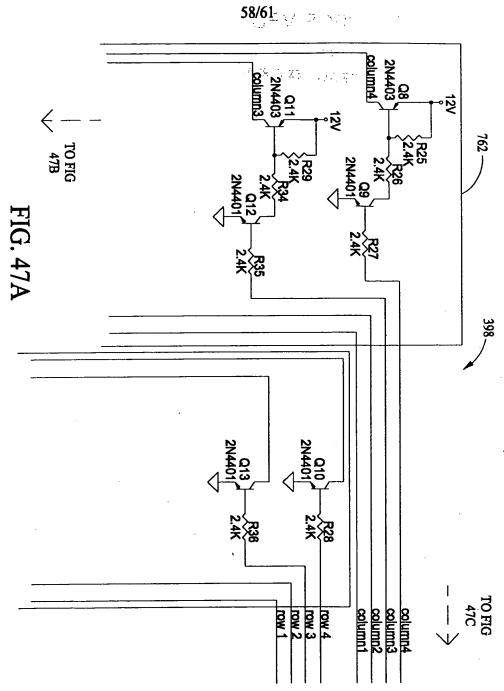






JAN 1 6 2003

:530 :53





برز

